UNIVERSITY OF LONDON

UNIVERSITY COLLEGE ANNUAL REPORT 1967-1968

UNIVERSITY COLLEGE
LONDON

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OFFICERS OF THE COLLEGE

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VICE-CHAIRMAN OF THE COLLEGE COMMITTEE

F. J. STEPHENS, M.A.

TREASURER

SIR BERNARD WALEY-COHEN, BT, LL.D.

PROVOST

THE RIGHT HON. LORD ANNAN,
O.B.E., M.A., D.LITT., D.U.

VICE-PROVOST

PROFESSOR G. W. KEETON,
M.A., LL.D., F.B.A.

SECRETARY

A. TATTERSALL, M.A.

REPORT OF THE CHAIRMAN OF THE COLLEGE COMMITTEE AND THE PROVOST

This has been a year of vexatious problems, caused by the inability of the Government to provide the University Grants Committee with sufficient funds to carry out the plan of expanding the universities.

The Quinquennial Settlement

The quinquennial grants for 1967–72, which were finally notified to Colleges in January 1968, when we were already almost half-way through the first financial year of the quinquennium, set us a peculiarly acute problem. For the first time the University Grants Committee gave 'indications' of areas in which it would like to see new developments (and for this College the areas were numerous). But the money available from the new grant was inadequate to cover existing commitments, and therefore was inevitably too small to enable the College to fulfil the indications. Between 1968–69 and 1969–70 (the earliest years between which significant comparisons can be made) the total increase for this College (excluding computer running costs, which the University is carrying) was about 1½ per cent, compared with the increase for the University of London of 3 per cent (roughly the same as for Oxford and Cambridge), and increases ranging up to about 5 per cent for some of the redbrick universities, and up to 11 per cent for some of the new universities. When the College was able to convince the Court how grave a financial situation we were in if we had to operate upon this grant, the Court generously—and no doubt with difficulty—made a supplementary allocation which, bearing in mind the computer provision referred to above, brings us roughly in line with the University's total percentage increase. It means in effect that new projects which are to be considered during the remainder of the quinquennium will be able to be mounted only if the College makes economies and retrenchment in other areas.

The income of the College for 1967–68 amounted to £5,789, 193, an increase of £656,388 over 1966–67. The Court grant announced in January 1968 was £79,000 more than the provisional figure upon which the budget for the year had been based. Subsequently, as has been mentioned, the Court increased the resources of the College by £46,000.

When a study of commitments in relation to recurrent grant was

made early in the session, it revealed that the financial position of the College in respect of recurrent expenditure would get progressively worse during the remaining four years of the quinquennium. The College therefore decided that it was essential to budget for a surplus in 1967–68 to assist in meeting additional expenditure in later years. While this policy will help the College between 1968 and 1970, the situation which is likely to arise unless grants are further revised, particularly in the final year of the quinquennium, makes us anxious for the future.

Expenditure in 1967–68 reached £5,670,309 inclusive of the cost of research borne by outside grants, which totalled £838,376 compared with £823,119 in 1966–67. The number of these grants reached 375, an increase of 14.

Capital grants announced for the year amounted to £1,368,185 compared with £2,476,477 in the previous year. Claims against these and earlier capital grants in reimbursement of expenditure amounted to £1,775,361 as compared with £1,416,666 in 1966–67.

Directly it became apparent how difficult the financial situation was, departments had to be asked not to fill vacant posts until a scrutiny had been made of the urgency of the need to fill them. This caused very serious inconvenience to a number of departments and was, in any case, an unhappily arbitrary method of economising; but in the circumstances it was inevitable. Since January, considerable progress has been made in filling vacancies, but departmental establishments can no longer be regarded as sacrosanct, and even established senior posts, including Professorships and Readerships, may occasionally come into question. Furthermore, severe restrictions had to be placed on promotions. It was shortage of money rather than the new quota of 35 per cent of senior posts announced by the UGC in July 1967 which imposed these restrictions, but both will operate in future. At the time of the announcement of the new quota, the College's percentage of senior posts (Professor, Reader, Senior Lecturer / total full-time Academic Staff) was 42 per cent of posts filled, and promotions already in the pipeline at that time brought it up to 45 per cent by October 1967. The cause of this marked rise illustrates the somewhat wayward mode by which the quota works: the rise was caused not so much by an increase in the number of senior posts as by the fact that on the date the quota was calculated a number of junior established posts were vacant, and in some cases filled by temporary appointments. The College contends strongly that, with its abnormally high percentage of postgraduate students and post-doctoral workers, and the existence of a number of highly specialised

research departments, not to mention the absence of any General Degree work, a 35 per cent quota is totally unrealistic, however appropriate it might be for the average university institution. Many universities are, of course, below the 35 per cent figure. The University has asked Schools which are above the quota slightly to decrease the percentage of senior posts, and those below the quota to limit the number of new senior posts, in order to conform to the new UGC principle; but the negotiations with the UGC are still continuing on this matter. It is essential for University College that differentiation between Schools be preserved.

Finally, the College embarked on a gloomy policy of general economy. There was, in fact, little room for any significant savings on a budget which was already tightly drawn, and we were reduced to making miserable, cheese-paring economies, which are irritating both to academic staff and the Union, whose subvention was also cut. The good sense and maturity with which the Union recognised that all College activities, including their own, had to be subject to economy, was beyond praise.

These economies were forced upon the College by increases in expenditure beyond our control. Partly owing to a negotiated wage rise and partly owing to an increase in London weighting which was, after much argument, conceded as legitimate by the Prices and Incomes Board, our technical staff got a well-deserved rise. Delight that the technical staff's claim had been allowed was, however, marred by the belief that the ruling about London weighting ought to have applied to all other staff in the University. Academic scales had already been referred to the Prices and Incomes Board, and the application of the increased London Allowance to them had also to await—and is still awaiting—the verdict of that body. The cost to the College of the award to technical staff will amount to £22,500 in a full year, and the UGC refused to provide an earmarked grant to meet this cost. London University is being penalised for being in London.

At the same time, the College found that it could not compete in the London market with its present level of clerical salary scales. The College sought permission to increase clerical salaries in general conformity and pointed to the fact that clerical civil servants had recently improved their salary scales. This application has been held up pending a review of salary scales and an attempt to standardise these scales for clerical and secretarial staff throughout the University. Proposals on a University basis have now been submitted and it is hoped that they will succeed, because our clerical staff are suffering unjustifiable hardship, and because on our present scales we cannot

retain and recruit people of quality. We have, however, had to budget for this increase in expenditure during the quinquennium.

Another punishing blow had been the introduction of the new system of scientific equipment grants. The UGC's former system provided such equipment, as approved by assessors, for departments with new and adapted buildings, but did nothing for other departments. Everyone admitted that this system was unsatisfactory. The new system, based upon capitation grants, and weighted for postgraduates, is in theory, fairer to the universities; and also more acceptable to the Treasury, in that the Government does not any longer have to face an open-ended commitment. Unfortunately, the amounts on which the capitation grants have been based are inadequate, and the transitional arrangements from the old to the new scheme threw most universities into a turmoil. The system hit hardest those places which, at the time of its introduction, had building schemes nearing completion, and University College was one of those worst affected. As a result, we had to arrange additional overdraft facilities in order to honour commitments to departments already approved by assessors under the old scheme, but axed by the UGC as a result of its termination. The debt which we then incurred can be met only from future scientific equipment grants.

We forecast that this would happen long before the new system was introduced. The new arrangement rested on the principle that universities should be able to plan the replacement of existing equipment and the purchase of new items by setting aside part of the grant year by year. University College stands no chance of reaching this Utopia. We have to honour a large backlog (over £½ million) of grants which had been approved under the old system, to repay a debt of £126,500 to meet the current needs of departments, as well as to make some attempt, however meagre, to contribute towards the cost of equipping the first stage of a new Chemistry Building which is costing over £1 million and for which £⅓ million is still needed for equipment. The scientific equipment grants allocated to the College are inadequate for current requirements, let alone to meet our debts and liabilities. Our representations, through the University, for an allocation from the UGC's own reserve towards the cost of equipping the Chemistry Building have met with no success and we are advised that all the UGC's funds have now been allocated up to the end of the financial year of 1969–70.

Student Numbers

Not only did the UGC indicate certain areas which they hoped the

College would reinforce. They indicated through the Court that they expected student numbers to rise, and set us targets. The College has been asked to increase student numbers by 16 per cent, largely Arts-based undergraduates and Science-based postgraduates, despite the fact that the UGC's 'indicated' areas did not include any of the departments in the humanities which will have to find places for the undergraduates.

It would be idle to deny that this request caused hard feelings in the College: especially as it was accompanied by a hint that the College's recurrent grant would have to be reviewed if the targets were not met. The College fears for the future of small group teaching —our tutorial system—which has been long established and extended in recent years, and on which our present high standard of tuition is based. But it also finds difficulty in increasing the number of students still further when the physical space in which departments have their being is so small. Most of the College's academic activities take place on the rectangle, which is no more than 10½ acres in size; and the total acreage is no more than 12 acres. Over 5,000 students are taught on this acreage. (The new universities were given as much as 200 acres for development.) As a result, many of our facilities are used to capacity—for instance both the staff and the students' Refectory. University policy is today too full of paradoxes. For instance, the College has been urged by the UGC to provide from its recurrent grant £20,000 a year extra money for strengthening the Department of Town Planning and increasing the number of postgraduate students in it; and it has agreed to do so. But grants for postgraduate study are being cut, and the UGC was unable to provide the funds to purchase the site on which for years we have planned to expand this Department. How the expansion in this postgraduate Department is to be achieved remains a mystery.

Capital Expenditure

Right at the end of the year came another heavy blow from the UGC. A further cut was imposed upon the universities' building programme. This blow postponed practically all 1968–69 building projects for which a contract had not yet been signed; stopped acquisition of sites and properties; and cut the new capitation grant for capital equipment, referred to above, from its already inadequate figure by a further 5 per cent in 1969–70. It so happens that this College had very little in the current University building programme, and the deferment of capital projects is therefore less serious in the short-term than it might have been. The long-term prospects are, of course, gloomy in

the extreme, and it may be many years before a new major building from UGC funds is sanctioned. There is also one sad short-term effect. The scheme to improve the Refectory will be deferred. To this we had attached great store, since the increased student numbers which we are going to take will impose an additional burden on our already overstrained Refectory.

The State of the Building Programme

We are now planning a substantial extension to Ramsay Hall to be financed by a further gift from the Anonymous Donor of £300,000, and a building contract will shortly be signed for the second stage of the Whitcher Place development, which will be financed from the Max Rayne Foundation's gift of £500,000, and will provide a self-catering student house for 287 men and women students. We have been assured that both these schemes can proceed as planned and that they will qualify for the usual UGC support for fees and furniture. We had been enormously encouraged by the gift from the Anonymous Donor—the third which he has made to this College. Ramsay Hall, his first gift, has been in use since October 1964; Ifor Evans Hall in Camden Town, his second gift, will be opened in October 1968; and the extension to Ramsay Hall will almost treble the accommodation of that building.

Early in the session, the installation of the seating and equipment in the Collegiate Theatre in the Central Collegiate Building was completed, and the first official function in the Theatre was on 19 February when Lord Evans of Hungershall delivered the first of the Lord Northcliffe Lectures in Literature for the year.

The conversion of the premises formerly occupied by the Library Association and the National Central Library was completed, and except for two floors occupied by the Accounts Department, the building now houses the D.M.S. Watson Library. Into this Library has been transferred the collections in Scandinavian subjects, Law and International Law and Relations, the Thane Medical Sciences library, Anthropology, the Natural Sciences library, and the libraries of the Folklore Society and the Royal Historical Society. It is also planned to move there eventually the Library's rare books, the Bentham and Brougham papers, and similar manuscript collections.

Stage IV of the Engineering Building was completed in April. It has been possible to improve the accommodation available to the Faculty of Medical Sciences with the completion of a superstructure above the Anatomy Dissecting Room and the construction of a mezzanine floor

and other alterations in the Anatomy Museum area. Advantage has been taken of the move of the Thane library to the D.M.S. Watson Library to carry out further modifications. The occupation of the D.M.S. Watson Library has also made available some accommodation in Foster Court, which has been adapted for other academic uses.

In the Faculty of Laws Building in Endsleigh Gardens, the basement has been reconstructed to provide the Faculty with a lecture room, capable of accommodating approximately 125 students.

A generous donation from the Wellcome Foundation has made it possible to complete the upper part of the east elevation of the Biological Sciences Building, which had to be set back owing to rights of light enjoyed by the National Central Library Building before it was purchased by the College. The development, which will benefit the Departments of Biophysics and Biochemistry, is expected to be completed in February 1969.

Good progress has been made with the construction of the first stage of the new Chemistry Building on the east side of Gordon Street, and it should be ready for occupation in March 1969—though most of its equipment will be old equipment moved from existing laboratories.

The College has taken a lease of a building at 20 Flaxman Terrace, which has been adapted for academic use. Among its occupants are a part of the Department of Physics, the Traffic Studies Group of the Department of Civil and Municipal Engineering, and a part of the Bartlett School of Architecture, and it also provides additional production facilities for the Slade School's Unit for the Study of Film.

Wolfson House, the new building housing the Department of Human Genetics and Biometry, the Department of Animal Genetics, the new language laboratory of the Department of Phonetics, and a research unit of the Department of Psychology, which had been erected with financial support from the Wolfson Foundation, the Medical Research Council, and the UGC, was formally opened by Sir Isaac Wolfson on 31 May. The ceremony took place in the lecture theatre named after the late Professor J. B. S. Haldane.

Goldsmid House, North Row, W1, the College's first purpose-built student house, on a site given by Sir Harold Samuel, which provides self-catering facilities for 133 men and women students, was completed in time for occupation at the beginning of the session 1968–69. The contractors unfortunately did not quite complete the construction of the Ifor Evans Hall, in Whitcher Place, Camden Town, a hall of

residence for 219 men students, by the beginning of 1968–69, but the students took up occupation in spite of building operations during the first weeks.

Six houses in Bedford Way WC1, which had been used for three years to accommodate 95 students with self-catering arrangements, were closed at the end of the session and handed back to the University for demolition in connection with a University redevelopment scheme. 'The Hospice' in Hampstead and Stanhope Lodge N6, accommodating 46 women and 20 men respectively, were opened at the beginning of the session, and accommodation for 27 men at 1 Colosseum Terrace and 11 Albany Street NW1 will become available for the session 1968–69.

The Association of Friends of the College, as reported last year, provided a sum of £6,000 for furniture and equipment for the Central Collegiate Building, and, from a bequest of £1,000 by the late Mrs Elsie Blackman, a concert grand piano for the Collegiate Theatre. The Friends have also promised to raise funds to meet the many other needs of the Central Collegiate Building which are certain to arise, and have generously agreed to an incentive scheme of matching pound for pound any sum which the students can provide by their own efforts. The Friends have once again given financial assistance towards the cost of a reunion for former students held in May 1968, and also a grant of £50 for the Film Society.

Student Matters

The College, which has so long successfully maintained good staff-student relations, was unaffected by the disturbances caused by student unrest which occurred at some other universities during the session. It was, however, felt that a new situation had arisen in universities and that the time had come to look at the whole question of student participation in College affairs. The College Committee and Professorial Board, therefore, set up a Committee on Student Matters to work during the summer, so that its recommendations could be put to the Professorial Board and the College Committee at the beginning of the autumn term.

The Committee on Student Matters believed that the machinery for considering matters raised by students should be streamlined and it was, therefore, recommended that the present Managing Committee should be dissolved and a Joint Committee of the College Committee, Professorial Board, and representatives of the Students' Union should take its place. This new Committee would be responsible for routeing matters raised by students to the appropriate place for discussion and

consultation and thereafter to the Professorial Board and the College Committee for decision.

The Committee also felt that staff-student contacts at departmental levels should be developed. In many departments this would only be a formalising of existing arrangements but the Committee agreed that there should be a formal basis for these departmental staff/student committees and provision for regular meetings. In these committees students should have the right to express their views about such matters as the curriculum and examination procedure.

For a number of years the Union has asked for representation on the College Committee. This proposal clearly raises many questions of principle but the College Committee was disposed to regard it favourably, and has accordingly suggested that further discussions take place between the College and the Union to discover whether the new Statutes should be redrafted so as to permit two students to sit on the College Committee.

Academic Developments

Other substantial changes are also likely to take place soon in the organisation of the College. Under the new draft Charter and Statutes the representation of non-professorial members upon the Professorial Board will be increased to about one-third. It is, moreover, recognised that were students to be admitted to join the College Committee, it would be necessary to ensure that junior staff were also represented among the non-professorial members of the College Committee.

One of the more important administrative innovations made during the year has been the creation of an Allocation of Resources Committee. This body exists to assess priorities within the College and to advise the Professorial Board and the College Committee on the shape of development. It had no sooner been set up than it had to advise on ways of meeting the financial crisis referred to above and in fact spent most of its time this year reallocating existing resources rather than allocating additional resources.

Although the total student population of the College again exceeded 5,000 there was, for the first time in many years, no measurable expansion to record. The levelling out of student numbers was almost certainly attributable to the heavy cut-back in recurrent grants, combined, on the undergraduate side, with the increased competition from the expanding new universities and with the continued shortfall in adequately qualified candidates for some science and engineering courses. The number of overseas students increased during the session

by a further 2 per cent to 20·3 per cent in spite of the substantial fee increases recommended by the Government. Of full-time students, 24·6 per cent were in hostels and other accommodation provided by the College or the University, 50·8 per cent were in lodgings, and 24·6 per cent lived at home. In a year when only limited additional student accommodation came into use, this distribution was in line with previous years.

The session saw the introduction within the College of a number of B.A. Combined Studies Degrees in two subjects, courses having commenced in History of Art combined with French, German, Italian, or Philosophy. A new first degree course in Modern Iberian and Latin American Regional Studies was introduced, and on the postgraduate side teaching began for the M.A. Degrees in Modern English Language and in History (English with some European). The College introduced its own postgraduate Diplomas in Architecture and in Film Studies and began courses for two new branches of the University Academic Postgraduate Diploma in Librarianship: one for Teacher-Librarians and one in Scientific and Industrial Library and Information work.

The College has concluded with the University of Notre Dame, Indiana, an arrangement whereby twenty to thirty students in the Faculty of Law at Notre Dame will spend a complete session in the Faculty of Laws of the College, accompanied by Professor C. Kellenberg, who has been appointed a Visiting Professor of the College for the session 1968–69.

The first appointments of other Visiting Professors were made, under a scheme which envisaged a close academic association with persons of distinction working in research institutions, and elsewhere, outside the University, and from which it was felt the College would derive substantial benefits.

A Chair of Library Studies was established by the University in 1967, and was filled by the appointment of Professor R. Irwin, who had been Professor of Library Studies by conferment of title since 1957.

At the beginning of the session Professor F. Sondheimer's Royal Society Research Professorship was transferred to the College from Cambridge, and the title of Professor of Chemistry was conferred on him by the University. Professor Sondheimer and his group have taken part in the teaching work of the Department of Chemistry in addition to their established research activities, which are concerned with the synthesis and structure of large ring organic compounds.

At the end of last session arrangements were approved by the

Admiralty Board and the College for the transfer of the education of student members of the Royal Corps of Naval Constructors from the Royal Naval College, Greenwich, to the Department of Mechanical Engineering at University College. The Department introduced Naval Architecture options into the undergraduate course in Mechanical Engineering and set in motion plans for a new instructed M.Sc. course in Naval Architecture to start in 1968–69. These new arrangements have facilitated the development at University College of teaching and research in Maritime Engineering, for which there is a clear national need. Members of the teaching staff of the Corps were seconded to the College and the title of Professor of Naval Architecture was conferred by the University on L. J. Rydill.

In order better to indicate the work and interests of the Department of Electrical Engineering its name was changed during the session to that of 'Department of Electronic and Electrical Engineering'.

The Centre for Urban Studies and the College, in collaboration with the Ministry of Overseas Development, instituted in April 1968 a one-year postgraduate course on urbanisation in developing countries leading to a College Diploma in Urban Studies (Developing Countries). The course is intended for graduates in the social sciences and allied fields from developing countries who are concerned with socio-economic aspects of urban growth.

Development in a relatively new field was made possible by a substantial benefaction from the Ernest Cook Trust to enable a Chair and supporting posts to be created for work in the field of Country Planning at University College and Wye College. The University has instituted the Ernest Cook Chair of Countryside Planning, which will be tenable at the two Colleges, and at University College will be attached to the Department of Town Planning.

A list of publications by members of the various departments will be found on pages 30–78. This is an impressive record and no attempt is made here to summarise the research projects on which the departments have been engaged during the session, many of which have attracted substantial grants from Research Councils and other grant-giving bodies. Outstanding among such grants was one from the Science Research Council of over £½ million for the Department of Physics for geophysical and astronomical researches in Space.

The College held in April 1968 its second conference of Headmasters and Headmistresses. These conferences are proving most helpful on both sides, giving Heads a better idea of what the College offers and also improving personal links between schools and Heads and Tutors of College departments.

The 1968 Foundation Oration was delivered by Osbert Lancaster in the Large Hall of Friends' House on Thursday 22 March. The subject of his oration was 'Today and Yesterday'.

STRANG, *Chairman*

ANNAN, *Provost*

SUPPLEMENT

HONOURS AND DISTINCTIONS

In the New Year Honours in 1968 Lord Robbins, Honorary Fellow of the College, was made a Companion of Honour, for services to the arts and to learning. Three Fellows of the College were created Knights Bachelor: O. W. Humphreys, for services to the electronics industry, Dr A. S. Parkes, formerly Mary Marshall Professor of the Physiology of Reproduction in the University of Cambridge, and F. E. Warner, for services to the chemical engineering profession. The C.M.G. was conferred on W. D. C. Wiggins, Director of Overseas (Geodetic Topographic) Surveys, Ministry of Overseas Development, and the C.B.E. on K. M. Leach, President of the Mechanical Engineering Federation, for services to engineering and export, on E. L. Paolozzi, sculptor, and on Dr Christine F. T. Saville (Mrs Fisher), Senior Medical Officer at Wakefield Prison, all former students of the College. Professor O. R. Marshall, a former member of staff of the Department of Laws, also received the C.B.E., for outstanding services in the legal field and as Constitutional Adviser to Barbados.

The Queen's Birthday Honours included the conferment of the D.B.E. on Dr C. Veronica Wedgwood, Honorary Fellow of the College and Special Lecturer in the Department of History. M. J. J. L. Rivalland, Chief Justice of Mauritius and a former Laws student, was created a Knight Bachelor, and the C.M.G. was conferred on E. F. Given, lately Counsellor in the Office of the Political Adviser to the Commander-in-Chief Far East, Singapore, and a former student of French. Former students who received the C.B.E. were Roger Hilton, painter, J. D. Lennon, architect and designer, D. Osmond, Chief Constable of Hampshire Constabulary, and Dr J. L. Robson, Secretary for Justice, New Zealand.

Two further honours were conferred by the Queen in the course of the year. Sir Solly Zuckerman, Fellow of the College, received the

Order of Merit, and Mr Sebag Shaw, a former student in the Faculty of Laws, who was appointed a High Court Judge in the Queen's Bench Division, received a Knighthood.

Among the many interesting and important appointments of past and present members of the College were those of Lord Annan as Vice-Chairman of the reconstituted Public Schools Commission, Sir Lindor Brown as Chairman of the Lister Institute of Preventive Medicine, Lord Robbins as Chairman of the Court of Governors of the London School of Economics and Political Science, Sir John Summerson as a member of the Advisory Council on Public Records, and L. C. B. Gower and Professor Sir Ronald Nyholm as Trustees of the British Museum. Sir Frank Francis was appointed a consultant on the Council of Library Resources in Washington, and the College Librarian, J. W. Scott, was invited by the Committee of Vice-Chancellors and Principals to be a member of a Standing Committee on University Libraries.

Sir Harold Beeley was appointed Ambassador Extraordinary and Plenipotentiary at Cairo, and S. W. C. Phillips as Second Civil Service Commissioner, with the rank of Under Secretary, concerned with the Fulton Committee recommendations for Civil Service reforms.

Other appointments of former students of the College included: O. Alp, Minister for Public Works in the Turkish Cabinet, Major General Sir Leonard Atkinson, President of the Institution of Electronic and Radio Engineers, S. H. O. O. Awokoya, Director of the Department of Application of Science to Development in UNESCO, A. S. Baxendale, Chief Education Officer to the Home Secretary, Dr E. F. Brookman, Chairman of the Nobel Division of Imperial Chemical Industries, Dr B. C. Lindley, Director of the Electrical Research Association, Mrs Dorothy Knight Waddy, a County Court Judge, and G. H. Wigglesworth, Director of Building Development at the Ministry of Public Building and Works.

Two Fellows of the College, Sir Mortimer Wheeler and Professor D. P. Craig, were elected to Fellowship of the Royal Society, as were three former students, Dr L. C. Bateman, Professor G. R. Burbidge, and Professor F. D. Richardson, while Professor M. Abercrombie was elected to the Council. Professor G. J. Kane, formerly on the staff of the Department of English, became a Fellow of the British Academy, Professor Sir Ronald Nyholm became President of the Chemical Society of London, and Professor Dame Kathleen Lonsdale was elected to an Honorary Fellowship of the Lucy Cavendish Collegiate Society, Cambridge, and to membership of the Council of the Royal Society of Arts for 1968–69. Bernard Dunstan was elected

a Royal Academician and R. E. Clatworthy an Associate of the Royal Academy, both former students of the Slade School.

Honorary degrees of other universities were conferred on past and present members of the College as follows: the Litt.D. of the University of Liverpool on Professor H. C. Darby, the D.Litt. of the University of Wales on Sir Frank Francis, the D.Sc. of the University of Leeds on Sir Harold Himsworth, the D.Litt. of the University of Exeter on Professor Lord Holford, the D.Sc. of the University of Kent and the LL.D. of the University of Dundee on Professor Dame Kathleen Lonsdale, the D.Sc. of the University of Hull on Professor Sir Harrie Massey, the D.Sc. of the University of Aston and the LL.D. of the University of Dundee on Sir Peter Medawar, the D.Sc. of the University of East Anglia on Professor Sir Ronald Nyholm, the D.Sc. of the University of Newcastle on Professor Emeritus L. S. Penrose, the D.Sc. of the University of Sheffield on Professor G. Porter, a doctorate by the Royal College of Art on Lord Robbins, and the D.Sc. of the University of Bath on Dr T. D. Whittet.

The joint award of the 1967 Nobel Prize for Chemistry was made to Professor G. Porter, Visiting Professor to the Department of Chemistry; the Royal Society awarded its Sylvester Medal to Professor H. Davenport, formerly Astor Professor of Mathematics, its Copley Medal to Professor B. Katz, and a Royal Medal to Professor J. Z. Young; the William Allan Memorial Award of the American Society for Human Genetics was made to Professor H. Harris, the Conway Evans Prize of the Royal College of Physicians was awarded to Sir Harold Himsworth, the Domenico Marotta Gold Medal of the Società Chimica Italiana to Professor Sir Ronald Nyholm, and the Corday-Morgan Medal and Prize of the Chemical Society to Dr M. L. Tobe.

APPOINTMENTS

The following were appointed to membership of the College Committee in the course of the year: Sir Edwin Chapman-Andrews and Sir Frederick Warner, who were nominated by the Fellows of the College and the Old Students' Association respectively, Mr W. Greaves, and the Hon. Virginia Makins. Sir Frederick Warner also became Vice-Chairman of the Managing Committee.

Within the College, at the beginning of the session Professor A. L. Cullen, formerly Professor of Electrical Engineering in the University of Sheffield, came to the Pender Chair of Electrical Engineering, Professor J. F. Kermode, who was Winterstoke Professor of English

in the University of Bristol, to the Lord Northcliffe Chair of Modern English Literature, Professor J. Lewis of the University of Manchester, where he was Professor of Inorganic Chemistry, to a Chair of Chemistry, Professor D. V. Lindley, Professor of Statistics in the University College of Wales, Aberystwyth, to the Chair of Statistics, and Dr J. S. Wilkie, formerly Reader and Acting Head of the Department of History and Philosophy of Science in the College, was appointed to the Chair of History and Philosophy of Science. Professor R. Irwin, who had been Professor of Library Studies by conferment of title, was appointed to the newly-established Chair of Library Studies. The title of Professor of Naval Architecture was conferred on L. J. Rydill, who joined the Department of Mechanical Engineering on the transfer of the education of student members of the Royal Corps of Naval Constructors to the College from the Royal Naval College, Greenwich, and that of Professor of Chemistry on Professor F. Sondheimer, whose Royal Society Research Professorship was transferred to the College from Cambridge. Members of the non-professorial staff who became professors by conferment of title were Dr E. A. Ash (Electrical Engineering), P. R. Bell (Botany), Dr B. Cheng (Air and Space Law), Thorold Dickinson (Film), Dr E. G. Gray (Anatomy (Cytology)), E. W. Handley (Greek and Latin), Dr K. J. Ives (Public Health Engineering), Dr H. Kalmus (Biology), Dr T. H. Lambert (Mechanical Engineering), Dr E. A. Power (Mathematics), Dr B. R. Rabin (Enzymology), the late T. F. Reddaway (The History of London), Dr C. A. Vernon (Chemistry), Dr J. G. Weiss (Jewish Studies). The following were appointed to established Readerships: G. Manners (Geography), Dr P. N. Robson (Electrical Engineering), and, from 1 April 1968, Dr M. Stone (Probability and Statistics); and the title of Reader was conferred on Dr J. P. Barron (Archaeology and Numismatics).

A scheme for the appointment of Visiting Professors was introduced in 1967, and the first appointments were made during the session in the departments indicated: Dr R. Hide, of the Fluid Dynamics Laboratory at the Meteorological Office, Bracknell (Mathematics); Professor P. Feyerabend, Professor of Philosophy in the University of California at Berkeley (History and Philosophy of Science); Professor G. Porter, Director and Fullerian Professor of Chemistry, The Royal Institution (Chemistry); Dr J. A. Saxton, Director of the Radio and Space Research Station, Science Research Council, Slough (Physics); Professor Melvin M. Webber, Professor of City Planning in the University of California at Berkeley (Architecture).

At the beginning of the session there were some changes in Faculty

appointments: Professor E. H. S. Burhop became Dean of the Faculty of Science; Professor P. N. Rowe and Professor H. Billett were appointed respectively Dean and Vice-Dean of the Faculty of Engineering; and Professor S. P. Datta and Professor J. Z. Young, respectively Dean and Vice-Dean of the Faculty of Medical Sciences. I. M. Kennedy was appointed Sub-Dean of the Faculty of Laws and Dr J. Diamond Sub-Dean of the Faculty of Medical Sciences.

Many members of the academic staff and former staff and students obtained academic appointments outside the College. Within the University of London Dr E. H. Andrews was appointed to the Chair of Materials tenable at Queen Mary College, Dr J. B. Hasted to the Chair of Experimental Physics and Dr G. A. Wells to the Chair of German at Birkbeck College, Dr F. M. L. Thompson to the Chair of Modern History at Bedford College, and Dr W. D. Wall as Dean of the Institute of Education. The title of Professor of International History at the London School of Economics and Political Science was conferred on Dr Ragnhild M. R. H. Hatton, that of Professor of Animal Behaviour on Dr J. S. Kennedy in respect of his post at the Imperial College of Science and Technology, and that of Professor of Paediatrics on Dr L. B. Strang in respect of his post at University College Hospital Medical School.

Announcement was made during the year of the following appointments to academic posts in other Universities: Dr C. A. Burns to the new Chair of French Studies in the University of Strathclyde, A. P. Cavendish as Professor and Head of the Department of Philosophy at St David's College, Lampeter, T. F. Daveney to the Chair of Adult Education and the Directorship of Extra Mural Studies in the University of Exeter, J. C. R. Dow as Professor of Applied Economics in the University of Oxford, and Dr J. T. Farrand as Professor of Law in the University of Manchester. Professor S. Griew was appointed to the Chair of Psychology in the University of Dundee, A. G. Hines to the Chair of Economics in the University of Durham, T. Lewis to the Chair of Mathematical Statistics in the University of Hull, Dr B. L. Moiseiwitsch to a Chair of Applied Mathematics in the Queen's University of Belfast, and Professor A. M. Ross as Director of the School of Education recently established in the University of Lancaster. The title of Professor of Pure Mathematics was conferred on Dr D. A. Burgess by the University of Nottingham. Dr I. M. Allison was appointed to a Readership in Mechanical Engineering in the University of Surrey, Dr A. G. Hawkes to a Readership in Mathematical Statistics in the University of Durham, L. B. Keeble as Reader in Regional and Town Planning in the University of Queensland, and

Dr K. Vickerman as Reader in Zoology and Director of a new Nuffield Research Unit in Protozoology in the University of Glasgow.

RETIREMENTS

This session has seen the retirement of an unusual number of colleagues who have rendered outstanding service to the College.

Professor Dame Kathleen Lonsdale, formerly a research student in the Department of Physics under Sir William Bragg in 1922–23, returned to the College in 1946 as Reader in Crystallography in the Department of Chemistry, having been in the previous year one of the first two women to be elected to a Fellowship of the Royal Society. The title of Professor of Chemistry was conferred upon her in 1949. She built up the undergraduate teaching of crystallography almost from its beginnings, and helped also to establish the intercollegiate M.Sc. (Crystallography) course which was later based entirely on Birkbeck College. Under her influence academic and technical staff and research students from a very large number of countries worked as an integrated group although on a wide range of scientific problems. She was part-author and General Editor of the three volumes of the *International Tables for X-ray Crystallography*, the major reference work in this field. While a member of the Chemistry Department she received seven honorary degrees, the Davy Medal of the Royal Society in 1957, and the D.B.E. in 1956. She was Vice-President of the Royal Society in 1960–61, President of the International Union of Crystallography in 1966, and in 1967–68 the first woman President of the British Association. For all her outstanding intellectual powers she is a practical person with a strong sense of humour. For these reasons a succession of students and research workers responded cheerfully to her insistence on the highest standards. As a Fellow of the College and Professor Emeritus, Dame Kathleen Lonsdale will be maintaining her association with the College in addition to fulfilling many commitments both at home and abroad.

Professor T. B. L. Webster came to the Chair of Greek at the College in 1948 at the age of forty-three, having held the Greek Chair at Manchester since 1933. A scholar of high distinction, an administrator of uncommon ability, the impact which he made on his Department and on classical studies generally in London was remarkable. Staff seminars were instituted, research students began to gather around him, and learned debate was unceasing; for Tom Webster, though a tremendous worker who never spared himself, always had time for his friends and those who needed his help and advice. The

Institute of Classical Studies, combining the resources of the Greek and Roman Societies with those of the University, was his brain-child, and it has become a centre of these studies unrivalled anywhere in the world. University College, which provided its first Director in Professor E. G. Turner and its present Director in Professor E. W. Handley, benefits greatly from its neighbour in Gordon Square. But Professor Webster's interests were not narrowly classical. Few members of the staff enjoy friendship and intellectual exchange with colleagues in other departments as actively as he did, and his departure is regretted almost as much in other Faculties as it is in the Faculty of Arts. He was Dean of the Faculty of Arts from 1954 to 1956, and held various other offices. He hated red tape and had a miraculous gift for telescoping procedures if required, but at the same time he respected traditional methods and gave ungrudgingly of his time and energy on committees. For his students he had sympathy and affection, and slightly amused tolerance if, as generally happened, they failed to reach the very high standards which, as one of nature's aristocrats, he had set himself and, as a convinced democrat, never despaired of finding adhered to by others.

Professor G. P. Wells came to the College in 1927 as an Honorary Assistant in comparative physiology. Within a few years he was vigorously developing the first good teaching school of comparative physiology in a zoology department of the University. He designed a wide variety of student class experiments, which were notable for their clarity as well as ingenuity in the use of simple equipment; and many were adopted by other university departments here and in the United States. Professor Wells was indeed a prominent figure in the rapid development of experimental zoology between the wars. He has made many important contributions to physiology by his researches on the annelid worms: though his range extended far beyond laboratory studies of function to include structure, ecology, and systematics. He became a Reader in 1943 and the title of Professor of Zoology was conferred on him in 1954. He was elected a Fellow of the Royal Society in 1955. During the second world war he carried a large part of the burden of the evacuation of the Department of Zoology to Bangor. His work on committees of all sorts often shows his quickness and clarity of mind, but is perhaps not least admired for the brilliant doodle that each meeting produces. Style and wit distinguish all his speaking and writing, and he is an outstanding populariser of science. *The Science of Life*, written with his father, H. G. Wells, and Sir Julian Huxley, appeared in 1929, and taught a generation the excitement and pleasure to be got from understanding biology. His

skill as a populariser of science has continued in many broadcasts. The College is happy that he will continue, now as Professor Emeritus, to work in the Department of Zoology.

Dr R. D. McLellan retired after a lifetime of service to the Departments of Latin and Greek and to the College as a whole. He joined the academic staff immediately on graduating here in 1927–28; became Tutor to Arts Students in 1945; and additionally became Senior Tutor in 1952, in succession to two outstanding men, Lawrence Solomon and Orson Wood. He became a Fellow of the College in 1962. To his tutorial task he brought an unusual endowment of qualities: humanity, prudence, sagacity, industry; an understanding of young people and their problems which enabled him to be sympathetic without being in any way soft; a sense of justice, of humour, and of proportion. He made his contribution to College affairs at all levels, and the College Committee knew that it could rely on him for a balanced interpretation of the student viewpoint, set in the context of the best interests of the College as a whole. He was particularly active in improving our provision of accommodation for students. During his tenure, the office of Senior Tutor became a key post. Throughout his years as Tutor he still carried a substantial load of teaching—indeed, he would not willingly have relinquished it. The success of the Professors' Dining Club and the excellence of its cellar owe much to his *bonhomie* and his palate. Generations of students will remember him affectionately both as teacher and tutor; and his colleagues will long regret his departure and miss his geniality and his wise and forward-looking counsel.

Dr Constance M. Rigby retired at the end of the session after nearly forty years of continuous membership of the College. She joined the staff of the Department of Mathematics in 1930 as an Assistant after a year as a postgraduate student. Dr Rigby was highly valued in her own department, and became a Senior Lecturer in 1965. She also occupied a unique position in the College. She was a member at various times of a number of the most important committees of the College, including the College Committee, the Managing Committee, the Finance Committee and the Joint Committee on Long-term Planning. She was also a member of the Professorial Board as a representative of the non-professorial staff many times and was continuously a member of the Board from 1956 until her retirement from the College. Throughout her long career at the College she was deeply concerned with the welfare of students, and was Senior Treasurer of the Women's Union Society from 1937 to 1946 and then Senior Treasurer of the College Union for twenty-one years.

Dr Rigby's interests were not confined to the College and as well as being an active member of the College branch of the Association of University Teachers she served on the national committees and was President of the whole organisation in 1956–57. However, what she did for the College cannot be adequately described in terms of membership of committees. It was above all her warmth of personality and sturdy commonsense that endeared her to staff and students alike; and her help was unstintingly available and constantly sought. Few have made so varied a contribution to the life and vitality of the College. Her great services to the College were appropriately recognised by her election as a Fellow of the College in 1966.

With the retirement of Dr L. W. Tancock, after forty-two years' service, the Department of French has lost one of its best-known and most popular teachers. Many generations of students have been fascinated by his lectures on French literature, a unique blend of learning, enthusiasm, and humour from which the personal note was never absent for long. Hundreds of students too have appreciated Leonard Tancock's other gifts: his sympathetic understanding of the student's point of view, his friendliness, his readiness to talk and to listen, his skill in tutorials and in the direction of research. Outside the College, he is widely appreciated as a lecturer, but it is his translations in the Penguin Classics which have won him his widest audiences, thanks to his extraordinary ability in capturing the spirit of whole series of writers as diverse as Larochefoucauld, Prévost, and Zola. Dr Tancock was elected a Fellow of the College in 1966. His connection with the Department dates from 1922, when he entered as a student, and it is to be hoped that, in one way or another, it will long continue.

Mr Herbert Tout retired from his Readership in the Department of Political Economy at the end of the session. He first came to the College in 1936 for two terms as an Assistant in the Department, and then returned in 1947 on his appointment to the Readership. He played a considerable part in the administration of the Department and acted as the departmental tutor to postgraduate students for a number of years. His knowledge of industry and of government combined with his wide interest in every branch of economics, both in the theoretical and applied fields, made him an inspiring companion to his colleagues no less than to students. Perhaps his most valued contribution was the tolerance and wisdom with which he considered the most controversial questions in discussions. The esteem in which he was held was not confined to the Department of Political Economy; he served a term as Dean of the University

Faculty of Economics and he was one of three experts sent by the University to examine the situation at the University College of Rhodesia in 1966 after the Unilateral Declaration of Independence.

The retirement of H. W. Thorp from his part-time lectureship in the Department of Chemical Engineering, has brought to an end an association with the Department which began in the early 1930s. At the beginning of the war he was one of those who helped to carry on the work of the Department at the College until it was closed after air-raid damage in 1941. He first entered the College as a student in 1919.

Miss Winifred Radley served the College for forty-six years. She joined the Registrar's Department in 1922, and became Deputy Registrar in 1932. During the war-time evacuation of the College, she had particularly heavy responsibilities in the Bangor group, and made the welfare of all members of the College there her very special concern, as well as carrying a tremendous administrative burden. She became Assistant Secretary in 1948. Her unique combination of efficiency, industry, knowledge of University and College machinery, and complete dedication caused her to attract to herself, and enabled her to discharge, an astonishing range of duties, half of which would have ground an ordinary mortal into the dust. Her integrity was matched only by her modesty and humanity. One of her more important tasks was to recruit and watch the welfare and progress of our secretarial and clerical staff, which she did, in increasingly difficult times, with outstanding devotion. Miss Radley will be deeply missed and gratefully remembered throughout the College, by its past and present members.

RESIGNATIONS

During the session Mr G. E. Walker resigned from membership of the College Committee. In December 1967 the College Committee expressed their appreciation of his valuable services to the College since his appointment as a member of the Committee in 1954. He had taken a most active part in the affairs of the College and shown a particular interest in the life of the students. In addition to his membership of the College Committee, Mr Walker had been a member of the Finance Committee since 1955, a member since 1962 and Chairman from 1963 to 1966 of the Managing Committee, and a member of the Shenley Property Committee, the Development Council, and the Court of Discipline. The College Committee also lost the services of the Reverend A. Montgomery Mann, who had been a member on the

nomination of the Old Students' Association of the College since 1964, and of Dr G. F. Vaughan, who had been nominated by the Inner London Education Authority and joined the Committee in 1959.

OBITUARY

We record with regret the death during the year of a number of members and former members of the College.

Among them were two Honorary Fellows, both Nobel Prize winners: Sir Henry Dale, a great friend of the College, who was a former President of the Royal Society and for many years Chairman of the Wellcome Trust, and Professor Otto Hahn, who studied at the College under Sir William Ramsay early in the century.

The death occurred of seven Fellows of the College, including Professor Emeritus Sir Charles Lovatt Evans, a Fellow since 1918, who was Jodrell Professor of Physiology and Director of the Physiological Laboratories from 1926 to 1949. His association with the College began in 1911, when he became Sharpey Scholar. He made numerous contributions to physiology in fields related to the work of E. H. Starling and of W. M. Bayliss, the most important being on the metabolism of the heart. He had great influence also through his books (several editions both of *Recent Advances in Physiology* and of *Principles of Human Physiology*) and through his chairmanship of the Military Personnel Research Committee and of the Council of the Royal Veterinary College. After his retirement from the Jodrell Chair he carried on his research at the Chemical Defence Experimental Establishment, Porton, publishing papers well after his eightieth birthday. He continued to inspire younger physiologists through his frequent presence at meetings of the Physiological Society. His surviving colleagues recall particularly his helpfulness, his loyalty, his dislike of ceremony, and his sense of humour.

Other Fellows of the College who died during the year were Sir Archibald Gray, who was elected a Fellow in 1908 and was for many years Dean of University College Hospital Medical School; Professor H. A. Harris, Professor Emeritus of Anatomy and Fellow of St John's College, Cambridge, who was a member of staff in the Department of Anatomy and Embryology from 1918 to 1934, and Professor of Clinical Anatomy jointly at the College and at University College Hospital Medical School from 1931 to 1934; Professor A. Austin Miller, Professor Emeritus of Geography in the University of Reading; Dr S. W. Saunders, formerly Chairman of Imperial

Chemical Industries (Heavy Organic Chemicals) Ltd; C. C. Walker, a former Director of the De Havilland Aircraft Company; and John Wilks, Librarian of the College from 1926 to 1954, who joined the Library staff in 1910, and who had been responsible for the restoration of the Library after its destruction during World War II.

Professor Emeritus Daniel Jones died at the age of eighty-six on 4 December 1967. Originally trained as a mathematician at Cambridge and then as a lawyer, he was interested from the turn of the century in the phonetic analysis of languages. He first lectured in Phonetics in this College in 1907 and founded here the first Department of Phonetics in Britain. He became Reader in 1914 and Professor in 1921. Up to his retirement in 1949, he was responsible for a great expansion in the work of the Department, experimental phonetics having been introduced as early as 1911. He had a world-wide reputation as the greatest authority on English pronunciation, but he also made early and important contributions to the linguistic analysis of Cantonese, Sechuana, Russian, and other languages. His influence still remains in much of the modern language teaching both in this and other British universities. For forty years he was Secretary and then President of the International Phonetic Association, which is still run from this College. He was essentially a gentle man, with rare integrity and dedication to his subject. It is certain that his work will dominate the history of British phonetic studies in this century.

The Department of History has lost by death two of its most distinguished members. Professor A. B. C. Cobban came from a lectureship at the University of Newcastle to the Readership in Modern French History at University College in 1937. The next thirty-one years until his death were marked by a lengthy list of works on both political thought and modern French history, widely appreciated in this country and abroad; and the conferment upon him of the title of Professor of French History in 1953 was universally applauded. His Pelican *History of Modern France* is now one of the standard works on the subject. He was Dean of the Faculty of Arts from 1958 to 1960, Head of the Department of History from 1961 to 1966, served the College and University on many committees, and was Chairman of the Board of Studies in History for 1965 and 1966. His growing reputation in the world of learning in no way diminished his remarkable modesty and patience: he remained prodigal of his time and energy for undergraduates, postgraduates, schools, the Historical Association (whose journal, *History*, he edited for ten years), and for numerous other bodies. His capacity for hard work was proverbial. He would often fulfil public engagements to lecture

—sometimes involving long journeys—at the end of a hard day's work at College. During the long illness preceding his death he was intensively occupied writing, revising, correcting proofs, and seeing his students, the last of whom he tutored a few days before his death. He died on 1 April 1968 shortly before his sixty-seventh birthday and his retirement.

Professor T. F. Reddaway joined the College in 1946, after Cambridge and war service, as Reader in the History of London, having already made his reputation as the author of *The Rebuilding of London after the Great Fire*. For the next two decades, in spite of periods of severe illness, he devoted himself to his onerous and exacting task. This involved close liaison with the Corporation of London, the livery companies, the Greater London Council, and other civic bodies, as well as training undergraduate and postgraduate students in the field of London history. In spite of these heavy commitments he pressed on unremittingly with his research, which earned him the Professorship of the History of London in 1967. His book on the early history of the Goldsmiths' Company was almost complete at the time of his death; and his study of the topography of London in the time of Pepys will shortly appear in a new edition of the Diary of which he was an associate editor. He served the Royal Historical Society as honorary treasurer for eighteen years and was, in addition, a considerable benefactor to many charitable causes. It gave him especial pleasure to donate a sum of money so that his colleagues in the History Department might hold an annual dinner, which henceforth will always be associated with his name. He died on 26 October 1967 in his sixtieth year.

The College lost three other members of its academic staff. Dr Eva Grunwald died on 1 August 1968 after a motor accident. An undergraduate before the war, she returned in 1945 to take a higher degree; she had been a member of the staff of the French Department since 1946 and was a highly successful teacher whose devotion to the individual student and his problems was widely appreciated. Dr Grunwald also had an exceptionally wide circle of friends in all Faculties of the College, her liveliness and sociability being much appreciated in refectory and common room. The community of the College as well as that of the French Department will be the poorer.

J. H. Madge, who had been an Honorary Research Associate in the Bartlett School of Architecture since 1965 and Director of its Sociological Research Unit, died in August 1968, and Dr W. P. Blount, Honorary Veterinary Consultant to the Faculty of Medical Sciences since 1947, died in July 1968.

On the administrative staff, S. A. Cable, a member of the Accounts Department for five years and Cashier from 1964, whose duties had brought him into contact with all sections of the College community, died suddenly on 23 June 1968.

Among former members of the staff who died were Dr O. L. Brady, member of staff of the Department of Chemistry from 1919 to 1955 and Reader in Organic Chemistry from 1923, whose association with the College began in 1909 when he entered as a student, Dr Elizabeth H. Thorne, a member of staff of the Department of Italian from 1934 to 1938, and F. M. C. Johnson, a member of the Library staff for twenty-eight years and Assistant Librarian from 1924 to 1951.

In the course of the year the College heard with regret of the death of many of its former students. Among them was John R. Pinches, a student of the Slade School at the beginning of the century and one of the most distinguished practitioners of the medallic art of his generation.

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[1 AUGUST 1967—31 JULY 1968]

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B. Woledge, M.A., D.DE L'UNIV., Fielden Professor of French Language and Literature
Richard Wollheim, M.A., Grote Professor of Philosophy of Mind and Logic
J. Z. Young, M.A., D.SC., F.R.S., Professor of Anatomy

APPENDIX III

HONORARY FELLOWS AND FELLOWS

The following elections were made in 1968:

HONORARY FELLOWS

The Rt Hon. Lord Annan, O.B.E., Provost of University College London; formerly Provost of King's College, Cambridge.

Professor Otto Hahn, Hon. President of the Max-Planck-Gesellschaft (former Kaiser-Wilhelm-Gesellschaft), Göttingen, Germany; Nobel Prize for Chemistry awarded in 1945.*

Sir Harold Samuel, Chairman of the Land Securities Investment Trust Limited; Chairman of the Central London Housing Trust for the Aged; Honorary Fellow of Magdalene College, Cambridge.

FELLOWS

Professor Nigel Ashworth Barnicot, Professor of Physical Anthropology in the University of London at University College London.

Sir Reginald (William) Goff, Judge of the High Court of Justice, Chancery Division.

Professor (Lillian) Mary Pickford, F.R.S., Professor of Physiology in the University of Edinburgh.

Sir Lalita (Abhaya) Rajapakse, Q.C., His Excellency the High Commissioner for Ceylon to Great Britain.

Sir John (Melior) Stevens, K.C.M.G., O.B.E., D.S.O., T.D., a Managing Director of Morgan Grenfell and Company Limited, merchant bankers, and a Director of the Bank of England; formerly Head of Treasury Delegation and Economic Minister in Washington.

Mr William Townsend, Reader in Fine Art in the University of London at the Slade School of Fine Art, University College London.

Sir John Walker, K.C.M.G., O.B.E., Director-General of the Hispanic and Luso-Brazilian Councils in London.

Professor Robert Evan Owen Williams, Professor of Bacteriology in the University of London at St Mary's Hospital Medical School; Principal of the Wright Fleming Institute of Microbiology; Consultant Bacteriologist, St Mary's Hospital.

Mr Charles Stanley Windebank, Research and Development Adviser to the Board of Esso Petroleum Company Limited; President of the Institution of Chemical Engineers.

*Died 28 July 1968

APPENDIX IV

PRINCIPAL CHANGES IN THE ACADEMIC STAFF

FACULTY OF ARTS

ANTHROPOLOGY

Appointment: D. R. Brothwell, B.SC., M.A. (Honorary Lecturer), Senior Scientific Officer at the British Museum.

Resignation: J. P. Garlick, B.A., PH.D. (Lecturer), to Lectureship, University of Cambridge.

EGYPTOLOGY

Appointment: D. M. Dixon, B.A., PH.D. (Lecturer), formerly held honorary appointment in Department.

ENGLISH LANGUAGE AND LITERATURE

Appointments: J. F. Kermode, M.A., F.R.S.L. (Lord Northcliffe Professor of Modern English Literature), formerly Winterstoke Professor of English in the University of Bristol.

M. P. Rhodes, M.A. (Quain Student), formerly Lecturer, University of Lund.

J. Stewart, B.A., FIL.LIC. (Research Assistant), formerly postgraduate student, University of Uppsala.

Resignation: S. Greenbaum, M.A., PH.D. (Research Assistant), to University of Oregon.

FINE ARTS

Appointments: B. Cohen (Part-time Lecturer).

P. K. King, M.A. (Part-time Lecturer).

FRENCH

Retirement: L. W. Tancock, PH.D. (Reader in French).

Death: Eva Grunwald, PH.D. (Assistant).

GEOGRAPHY

Appointments: W. J. Campbell, B.SC. (Assistant Lecturer), formerly Demonstrator, University of Bristol.

Mrs Carolyn M. Harrison (née Gittins), B.SC. (Assistant Lecturer), formerly William Gilles Research Fellow in Department.

G. Manners, M.A. (Reader in Geography), formerly Senior Lecturer, University College of Swansea.

Mrs Yih Huang T'ung, B.A., M.SC. (Research Assistant), formerly postgraduate student, London School of Economics.

GERMAN

Resignation: G. A. Wells, M.A., B.SC., PH.D. (Reader in German), to Chair of German, Birkbeck College.

GREEK

Appointment: T. W. Melluish, M.A. (Honorary Lecturer).

Retirements: R. D. McLellan, PH.D. (Senior Lecturer).
T. B. L. Webster, M.A., LITT.D., F.S.A., F.B.A., HON.R.A. (Professor of Greek).

HISTORY

Appointment: D. J. MacLeod, B.A. (Assistant Lecturer), from Churchill College, Cambridge.

Deaths: A. B. C. Cobban, M.A., PH.D. (Professor of French History).
T. F. Reddaway, M.A., F.S.A. (Professor of the History of London).

ITALIAN

Appointment: Mrs Anna L. M. Lepschy, M.A., B.LITT. (Lecturer), formerly Lecturer, University of Reading.

LATIN

Retirement: R. D. McLellan, PH.D.

LIBRARIANSHIP AND ARCHIVES

Appointments: I. P. Gibb, B.A., A.L.A. (Part-time Lecturer), Deputy Librarian, National Central Library.
Mrs E. Miriam Moore, M.A., A.R.C.M., L.R.A.M. (Honorary Lecturer), Institute of Education.

PHILOSOPHY

Resignation: A. P. Cavendish, B.A. (Senior Lecturer), to Chair and Headship of Department of Philosophy, St David's College, Lampeter.

PHONETICS

Appointment: Evelyn R. M. Abberton, B.A. (Assistant), from Pitman School of English.

POLITICAL ECONOMY

Appointments: D. R. F. Simpson, M.A., PH.D. (Lecturer), from Harvard University.
Professor T. Suzuki, M.EC. (Honorary Research Associate), Professor of Economics, Hosei University.

Resignation: A. G. Hines, B.SC.(ECON.) (Lecturer), to Chair of Economics, University of Durham.

Retirement: H. Tout, C.M.G., M.A. (Reader in Political Economy).

SCANDINAVIAN STUDIES

Appointment: Professor R. J. McClean, M.A., D.PHIL. (Honorary Research Associate).

Resignation: His Excellency Gunnar Hägglöf, G.C.V.O., LL.D. (Honorary Research Associate).

SPANISH

Appointment: A. M. García, B.A. (Lecturer), formerly Assistant Lecturer, King's College, London.

TOWN PLANNING

Appointments: J. R. Herbert, B.A., A.M.T.P.I. (Part-time Lecturer).

A. J. Scott, M.A., PH.D. (Honorary Research Associate), from University of Pennsylvania.

J. H. Westergaard, B.SC.(ECON.) (Honorary Research Associate), formerly Honorary Research Assistant in Department.

Resignations: L. B. Keeble, M.C., B.SC., M.A., M.T.P.I., F.R.I.C.S. (Reader in Town Planning), to Readership in Regional and Town Planning, University of Queensland.

W. Scott, B.SC.(ECON.) (Honorary Research Associate), to United Nations Research Institute for Social Development, Geneva.

FACULTY OF LAWS

Appointments: M. H. Banks, B.SC.(ECON.), M.A. (Honorary Research Associate), from London School of Economics.

Mrs A. Rosemary Everton, LL.M., PH.D. (Part-time Lecturer), formerly Lecturer, Lanchester College, Coventry.

Professor A. Gledhill, M.A., LL.D. (Honorary Research Associate), formerly School of Oriental and African Studies.

Winifred H. Hamilton, LL.B. (Assistant Lecturer), formerly Temporary Assistant Lecturer in Department.

Hildegard Jacobi, DR.JUR., LIC-EN-DR. (Honorary Lecturer), formerly Honorary Research Assistant in Department.

M. B. Nicholson, B.A., PH.D. (Honorary Research Associate), from University of Lancaster.

A. M. Sutton, LL.B. (Assistant Lecturer), formerly student, University of Aberdeen.

Resignations: P. T. O'Neill, LL.B. (Lecturer).

Professor G. O. Sayles, M.A., D.LITT., LITT.D., F.B.A. (Honorary Research Associate).

W. A. West, LL.M. (Honorary Lecturer).

FACULTY OF SCIENCE

ARCHITECTURE

Appointments: Patricia M. Hillebrandt, B.SC.(ECON.), PH.D. (Part-time Senior Lecturer), from National Economic Development Office, London.

J. Longmore, F.I.E.S., A.R.P.S. (Lecturer), formerly Temporary Lecturer in Department.

T. P. O'Brien, B.SC., M.A. (Part-time Lecturer), holds research appointment in Department.

E. Rowlands, B.SC., C.ENG., A.INST.P., M.I.E.E., F.I.E.S. (Lecturer), formerly Part-time Lecturer in Department.

Death: J. H. Madge (Honorary Research Associate).

BOTANY

Appointments: M. C. Jones-Mortimer, M.A. (Research Assistant), formerly post-graduate student, University of Oxford.

M. Mazelis, B.S., PH.D. (Honorary Research Associate), University of California.

CHEMISTRY

Appointments: W. R. Fitzgerald, B.SC. (Research Assistant), formerly research student, University of Western Australia.

P. J. Garratt, M.A., PH.D. (Lecturer), formerly Demonstrator and Fellow, University of Cambridge.

M. Gerloch, PH.D., D.I.C., A.R.C.S. (Lecturer), formerly Lecturer, University of Manchester.

B. F. G. Johnson, PH.D. (Lecturer), formerly Lecturer, University of Manchester.

J. Lewis, PH.D., D.SC., F.R.I.C. (Professor of Chemistry), formerly Professor of Inorganic Chemistry, University of Manchester.

A. G. Loudon, M.A., D.PHIL. (Lecturer), formerly Temporary Assistant Lecturer in Department.

Professor G. Porter, M.A., SC.D., D.SC., F.R.I.C., F.R.S. (Visiting Professor), Director and Fullerian Professor of Chemistry, The Royal Institution.

W. Schmutzler, DR.MED. (Honorary Research Associate), Pharmakologisches Institut der Universität, Freiburg.

F. Sondheimer, PH.D., F.R.S. (Professor of Chemistry and Royal Society Research Professor), from University of Cambridge.

Retirement: Dame Kathleen Lonsdale, D.B.E., D.SC., LL.D., F.R.S. (Professor of Chemistry).

HUMAN GENETICS AND BIOMETRY

Appointment: Mary K. Lucas, M.B., B.S., M.R.C.S., L.R.C.P., D.C.H. (Lecturer), formerly Lecturer, St George's Hospital Medical School.

MATHEMATICS

Appointments: Professor W. R. Dean, M.A. (Honorary Research Associate).

R. Hide, PH.D. (Visiting Professor), Fluid Dynamics Laboratory, Meteorological Office, Bracknell.

Retirement: Constance M. Rigby, M.A., PH.D. (Senior Lecturer).

PHYSICS

Appointments: J. A. Bowles, M.SC., D.I.C., A.R.C.S. (Lecturer), formerly held research and honorary appointments in Department.

K. Burrows, M.SC., PH.D. (Honorary Lecturer), Principal Scientific Officer, S.R.C. Radio and Space Research Station, Slough.

S. J. B. Corrigan, B.SC., D.PHIL. (Lecturer), from University of Oklahoma.

J. L. Culhane, M.SC., PH.D. (Lecturer), formerly held research appointment in Department.

W. M. Glencross, PH.D., A.R.C.S., D.I.C. (Lecturer), formerly held research and honorary appointments in Department.

M. Govan, M.SC., PH.D. (Research Assistant), formerly held research and honorary appointments in Department.

D. C. Imrie, PH.D. (Lecturer), formerly Research Fellow, Harvard University.

T. W. Jones, B.SC., PH.D. (Lecturer), formerly C.E.R.N. Fellow.

J. W. King, M.SC., PH.D. (Honorary Lecturer), Principal Scientific Officer, S.R.C. Radio and Space Research Station, Slough.

D. L. Moores, PH.D. (Lecturer), formerly Research Assistant, Queen Mary College.

K. Norman, B.SC. (Research Assistant), formerly Temporary Experimental Officer in Department.

T. J. Patrick, B.SC.(ENG.) (Lecturer), formerly held research and honorary appointments in Department.
W. J. Raitt, PH.D. (Lecturer), formerly held research and honorary appointments in Department.
H. Rishbeth, M.A., PH.D. (Honorary Lecturer), Principal Scientific Officer, S.R.C. Radio and Space Research Station, Slough.
L. A. Robbins, B.SC. (Research Assistant), formerly postgraduate student in Department.
P. W. Sanford, B.SC. (Research Assistant), formerly held research appointment in Department.
J. A. Saxton, PH.D., D.SC., F.I.E.E. (Visiting Professor), Director, S.R.C. Radio and Space Research Station, Slough.
A. F. D. Scott, B.SC. (Research Assistant), formerly postgraduate student in Department.
L. Thomas, B.SC., PH.D. (Honorary Lecturer), Principal Scientific Officer, S.R.C. Radio and Space Research Station, Slough.
T. E. Venis, C.ENG., A.M.I.MECH.E. (Lecturer), formerly Temporary Lecturer in Department.
C. Wilkin, PH.D. (Lecturer), formerly Research Associate, Brookhaven National Laboratory, Upton.
G. L. Wrenn, PH.D. (Research Assistant), formerly held research appointment in Department.

Resignations: J. B. Hasted, M.A., D.PHIL. (Reader in Physics), to Chair of Experimental Physics, Birkbeck College.
R. W. Procunier, PH.D. (Lecturer).
J. H. Wickens, PH.D. (Research Assistant), to grant supported post in Department.
W. S. Woolcock, PH.D. (Lecturer), to Australian National University.

PSYCHOLOGY

Appointment: I. S. Russell, PH.D. (Honorary Research Associate), formerly Honorary Research Assistant in Department.

STATISTICS

Appointments: D. V. Lindley, M.A. (Professor of Statistics), formerly Professor of Statistics, University College of Wales, Aberystwyth.
M. R. Novick, B.A., M.S., PH.D. (Honorary Lecturer), Educational Testing Service, Princeton, New Jersey.
M. Stone, PH.D. (Reader in Probability and Statistics), formerly Reader in Mathematical Statistics, University of Durham.

Resignation: T. Lewis, M.A. (Senior Lecturer), to Chair of Mathematical Statistics, University of Hull.

ZOOLOGY AND COMPARATIVE ANATOMY

Appointments: C. A. Middleton, B.SC. (Assistant Lecturer), formerly postgraduate student in Department.
Susan M. Hall (née Pegrum), B.SC. (Research Assistant), formerly Research Assistant, University of Cambridge.
T. M. Preston, B.SC. (Assistant Lecturer), formerly postgraduate student in Department.

Retirement: G. P. Wells, M.A., SC.D., F.R.S. (Professor of Zoology), to be Honorary Research Associate.

Resignations: A. D. Blest, B.SC., D.PHIL. (Lecturer).

The Very Rev. Father H. W. Rigney, S.V.D., B.A., M.SC., PH.D. (Honorary Research Associate).

FACULTY OF ENGINEERING

CIVIL AND MUNICIPAL ENGINEERING

Appointments: Duen Ho, M.SC., PH.D., D.I.C. (Research Assistant), formerly design engineer, Messrs Ove Arup and Partners.

W. H. Ward, D.SC.(ENG.) (Honorary Research Associate), Head of the Geotechnical Division, Building Research Station, Garston.

Resignations: I. M. Allison, B.SC.(ENG.), PH.D. (Lecturer), to Readership in Mechanical Engineering, University of Surrey.

R. Brain, M.ENG., C.ENG., A.M.I.C.E., A.M.I.MUN.E. (Lecturer), to appointment with State Planning Authority of New South Wales.

T. J. Stafford, M.SC., PH.D. (Honorary Research Associate)

MECHANICAL ENGINEERING

Appointments: D. K. Brown, M.ENG., R.C.N.C., C.ENG., M.R.I.N.A. (Senior Lecturer), from Royal Naval College, Greenwich.

B. R. Clayton, B.SC.(ENG.), PH.D. (Lecturer), from Messrs Geoffrey Woods Ltd.

D. J. Low, R.C.N.C., C.ENG., A.M.R.I.N.A. (Lecturer), from Royal Naval College, Greenwich.

L. J. Rydill, O.B.E., R.C.N.C., C.ENG., M.R.I.N.A. (Professor of Naval Architecture), from Royal Naval College, Greenwich.

Sir Alfred Sims, K.C.B., O.B.E. (Honorary Research Associate), Director-General Ships, Ministry of Defence, and Head of Royal Corps of Naval Constructors.

ELECTRONIC AND ELECTRICAL ENGINEERING

Appointments: A. L. Cullen, O.B.E., D.SC.(ENG.), C.ENG., F.I.E.E., F.INST.P. (Pender Professor of Electrical Engineering), formerly Professor of Electrical Engineering, University of Sheffield.

J. B. Davies, PH.D. (Senior Lecturer), formerly Lecturer, University of Sheffield.

O. J. Davies, B.SC. (Research Assistant), formerly postgraduate student in Department.

CHEMICAL ENGINEERING

Appointments: V. A. Borodulya, PH.D. (Honorary Research Associate), from Heat Transfer Institute, Minsk.

W. I. McCrindle, B.SC., A.R.C.S.T. (Lecturer), from Esso Petroleum Co. Ltd.

C. E. Norton, B.ENG., M.SC. (Lecturer), from British Oxygen Co. Ltd.

Retirement: H. W. Thorp, B.SC., C.ENG., M.I.CHEM.E., A.R.I.C. (Part-time Lecturer).

FACULTY OF MEDICAL SCIENCES

ANATOMY AND EMBRYOLOGY

Appointments: M. J. Evans, B.A. (Assistant Lecturer), formerly Temporary Assistant Lecturer in Department.

Professor R. Melzack, M.SC., PH.D. (Honorary Research Associate), Professor of Psychology, McGill University.
R. A. Willis, B.SC. (Lecturer), formerly held research appointment in Department.
C. C. Wood, B.SC. (Research Assistant), formerly student, University College of North Wales.

Resignation: Jennifer S. Altman, B.A. (Research Assistant), to appointment at University of Oregon.

BIOCHEMISTRY

Appointments: Wendy C. Allen, B.SC. (Research Assistant), formerly held research appointment in Department.
Daphne Maryanka, B.SC. (Research Assistant), formerly postgraduate student in Department.
D. Ridge, B.SC. (Research Assistant), formerly Departmental Assistant in Department.
Professor I. M. Roitt, M.A., B.SC., D.PHIL., M.C.PATH. (Honorary Lecturer), Middlesex Hospital Medical School.
E. D. Saggerson, B.SC. (Assistant Lecturer), formerly postgraduate student in Department.

Resignation: Mrs Margaret A. Houldsworth, M.SC. (Research Assistant).

PHARMACOLOGY

Appointment: W. E. Brocklehurst, PH.D. (Honorary Lecturer), pharmacologist with industrial firm.

Resignations: Mrs Norma E. Ndoping, M.SC. (Research Assistant).
T. S. Work, PH.D., D.SC. (Honorary Lecturer).

PHYSIOLOGY

Appointments: P. H. Ellaway, PH.D. (Assistant Lecturer), formerly postgraduate student in Department.
B. Lynn, B.SC. (Assistant Lecturer), formerly postgraduate student in Department.

Resignation: M. E. Wilson, M.B., CH.B., PH.D. (Lecturer), to appointment at School of Medicine, University of Washington.

MEDICAL SCIENCES

Death: W. P. Blount, T.D., PH.D., F.R.C.V.S., F.R.S.E. (Honorary Veterinary Consultant).

APPENDIX V

PUBLIC LECTURES

ENDOWED LECTURES

CHAMBERS MEMORIAL LECTURE

Sir Frank Francis, British Museum: 'The Scholar as Librarian'

COMMONWEALTH FUND LECTURES

Professor John Higham, Michigan: 'American Culture in the Victorian Age' (four lectures)

LORD NORTHCLIFFE LECTURES IN LITERATURE

The Lord Evans: 'Twentieth Century Literature: Portrait of the First Decade' (four lectures)

INAUGURAL LECTURES

Professor E. H. Brown, Professor of Geography: 'Man, the Geomorphological Process'
Professor B. Cheng, Professor of Air and Space Law: 'Analogies and Fictions in Air and Space Law'
Professor A. L. Cullen, Pender Professor of Electrical Engineering: 'Electronics and the Quantum'
Professor G. D. Dawson, Professor of Physiology, 'A Neurophysiologist's Approach to Epilepsy'
Professor E. G. Gray, Professor of Anatomy (Cytology): 'The Brain under the Electron Microscope'
Professor E. W. Handley, Professor of Greek and Latin: 'Menander and Plautus: A Study in Comparison'
Professor N. Lichfield, Professor of the Economics of Town Planning: 'Economics in Town Planning: A Basis for Decision Making'
Professor D. V. Lindley, Professor of Statistics: 'Decision Making'
Professor E. A. Power, Professor of Mathematics: 'The Application of Quantum Electrodynamics to Molecular Forces'
Professor R. J. Smeed, Professor of Traffic Studies: 'Traffic Studies and Urban Congestion'
Professor K. W. Swart, Professor of Dutch History and Institutions: 'The Miracle of the Dutch Republic as seen in the Seventeenth Century'
Professor P. Wheatley, Professor of Geography: 'City as Symbol'

LUNCH-HOUR LECTURES

Mr R. Brain: 'Traffic at the Crossroads: Roundabouts and Flyovers'
Dr W. G. Chaloner: 'Evidence of Life in Meteorites'
Dr Edwin Clarke: 'Man's Quest for his Soul'
Mr G. A. Cohen: 'Marx, Men and Animals'
Professor P. E. Corbett: 'The Start of Narrative in European Art'
Mr D. B. Davies: 'Philip II of Spain as Collector and Patron of the Arts'
Professor Thorold Dickinson: 'The Incline of Cinema'

Miss Audrey G. Donnithorne: 'China's Cultural Revolution and Economic Structure'
Dr R. C. Fisher: 'Parasitic Insects'
Mr E. W. Foster: 'The Pennine Way'
Mr D. H. Girmes: 'Is Logic Absolute and Complete?'
Mr A. J. R. Groom: 'Playing Games about International Affairs'
Dr D. R. Harris: 'Corn, Cucurbits and Cultures in the New World—The Origins of American Agriculture'
Dr C. J. Holdsworth: 'Ways of Looking at Medieval Visions'
Dr Shirley E. Jones: 'Zola and Dickens: Poets of the Industrial Revolution'
Dr V. D. Lipman: 'The Anglo-Jewish Community in Victorian Society'
Dr O. C. J. Lippold: 'Art in Scientific Research'
Mr S. Lushington: 'Poetry Today'
Mr A. N. Maxwell: 'How are Sensations Related to Brain Processes?'
Mr N. H. Perry: ' "Krise im Kohlenpott"—Contemporary problems in the Ruhr'
Mr N. J. B. Plomley: 'The Tasmanians—the Extinction of a Race'
Professor Randolph Quirk: 'Seven Types of Good Grammar'
Mr E. Rowlands: 'Noise in Hospitals'
Dr W. A. Smeaton: 'Science in the Capital of Burgundy: the Dijon Academy, 1740–1793'
Mr P. F. Stringer: 'Student Self-images'
Mr A. J. P. Taylor: 'Finest Hour'
Dr F. C. Webb: 'Why Spend Money on Food?'
Professor T. B. L. Webster: 'Greek Tragedy and Greek Art'
Dr C. V. Wedgwood: 'The Political Life of Peter Paul Rubens'
Professor R. Weiss: 'Dante and the Humanism of his Time'
Dr G. A. Wells: 'Giambattista Vico (born 1668): a philosopher of history re-assessed'
Professor Richard Wollheim: 'State Intervention and State Interference'
Professor J. Z. Young: 'Memory'

LECTURES ARRANGED BY COLLEGE DEPARTMENTS

This list includes only those lectures given by visiting lecturers or by honorary members of the staff.

BIOCHEMISTRY

Professor J. Baddiley, Newcastle upon Tyne: 'Bacterial Cell Walls' (two lectures)
Professor David E. Green, Institute for Enzyme Research, University of Wisconsin: 'The Mitochondrial Membrane Systems' (two lectures)
Professor Günther Siebert, Universität Stuttgart-Hohenheim: 'The Role of the Nucleus in Pyridine Nucleotide Metabolism'

FOLK-LORE

Professor Dag Strömbäck, Emeritus Professor of Nordic and Comparative Folklore, University of Uppsala: 'St Stephen and the Ballads'

LAWS

Professor Charles O. Gregory, Emeritus Professor of Law, University of Virginia: 'Enforcement of Collective Labour Agreements in the United States'

MATHEMATICS

Dr R. Hide: 'Topics in Geophysical Fluid Dynamics'

PHYSIOLOGY

Professor L. D. Peachey, Pennsylvania: 'Inward Spread of Contraction—Activation into Single Muscle Fibres'

APPENDIX VI

NUMBERS OF STUDENTS, SESSION 1967–68

	Under-graduates	*Post-graduates*	*Totals*
Faculty of Arts	990 (331)	374 (123)	1,364 (454)
Department of Political Economy ..	194 (12)	23 (2)	217 (14)
Slade School of Fine Art	93 (6)	76 (5)	169 (11)
Bartlett School of Architecture ..	132 (6)	67 (11)	199 (17)
Department of Town Planning ..	— (—)	130 (76)	130 (76)
School of Librarianship and Archives..	— (—)	101 (36)	101 (36)
	1,409 (355)	771 (253)	2,180 (608)
Faculty of Science..	1,089 (11)	*490 (106)	1,579 (117)
Faculty of Medical Sciences	261 (—)	8 (1)	269 (1)
Faculty of Engineering	320 (1)	178 (37)	498 (38)
Faculty of Laws	318 (24)	†223 (68)	541 (92)
	3,397 (391)	‡1,670 (465)	5,067 (856)

The figures in brackets indicate the number of part-time students included in the total under each head.

* This figure includes 81 full-time and 8 part-time postgraduate students working in the College Faculty of Medical Sciences who were registered in the University Faculty of Science.

† This figure includes 8 full-time and 1 part-time postgraduate students studying for an M.Sc. in International Relations who were working in the Department of Political Economy and were registered in the University Faculty of Economics.

‡ Of this number 1,252 were registered for higher degrees of the University of London; the remainder were working for higher diplomas of the University or of the College, or for higher degrees of other universities, or were engaged in research work, or attending postgraduate lecture courses.

APPENDIX VII

GEOGRAPHICAL DISTRIBUTION OF STUDENTS, SESSION 1967–68

	Under-graduates	*Post-graduates*	*Totals*
UNITED KINGDOM	2,986	1,053	4,039
BRITISH COMMONWEALTH OF NATIONS			
Australia	5	30	35
Canada..	9	62	71
Ceylon	4	11	15
Cyprus	10	5	15
Ghana	7	18	25
Guyana..	7	3	10
Hong Kong	14	9	23
India	18	67	85
Malaysia	19	5	24
New Zealand	—	23	23
Nigeria	11	42	53
Pakistan	6	29	35
Trinidad	6	6	12
18 other countries	41	22	63
OTHER PARTS OF THE WORLD			
Egypt	—	13	13
France	58	7	65
Greece	6	31	37
Iran	9	9	18
Iraq	4	6	10
South Africa	9	11	20
Spain	3	10	13
Sudan	—	13	13
Thailand	5	5	10
Turkey	6	7	13
U.S.A.	76	73	149
West Germany	18	9	27
39 other countries	60	91	151
(including 4 Stateless—2 undergraduates, 2 postgraduates)			
	3,397	1,670	5,067

SUMMARY

United Kingdom	4,039
British Commonwealth of Nations ..	489
Other parts of the world	539
	5,067

APPENDIX VIII

ADMISSION OF FIRST DEGREE AND FIRST DIPLOMA STUDENTS SESSION 1967–68

	Students Admitted October 1967
FACULTY OF ARTS	
B.A. Honours	
Classics	11
English	50
English & History of Art	1
French	30
French & History of Art	1
German	22
German & History of Art	3
German & Norwegian	1
German & Swedish	3
Hebrew	3
Hebrew & Egyptian	1
Hebrew & Jewish Studies	5
History, Ancient & Medieval	1
History, Medieval & Modern	33
Italian	10
Modern Iberian & Latin American Regional Studies	4
Philosophy	17
Philosophy & Economics	1
Philosophy & History of Art	2
Scandinavian Languages	7
	206
B.Sc.(Econ.)	63
University Diploma in Fine Art	20
FACULTY OF SCIENCE	
B.Sc. Degree	
Anthropology	18
Astronomy	8
Biochemistry	19
Biology	11
Botany	5
Microbiology	10
Chemistry	58
Geography	59
Geology	13
Mathematics	49
Pharmacology	4

	Students Admitted October 1967
B.Sc. Degree—*cont.*	
Physics	50
Physiology	11
Psychology	36
Statistics	15
Zoology	13
	379
B.Sc. Degree in Architecture	46
FACULTY OF LAWS	
LL.B.	102
FACULTY OF ENGINEERING	
B.Sc.(Eng.)	
Civil & Municipal Engineering	31
Electrical Engineering	19
Mechanical Engineering	18
B.Sc.(Eng.) in Chemical Engineering	37
	105
FACULTY OF MEDICAL SCIENCES	
2nd M.B.	95
2nd B.D.S.	50
	145
Total	1,067

APPENDIX IX

UNIVERSITY HIGHER DEGREES AND HIGHER DIPLOMAS

FACULTY OF ARTS

Ph.D. *Archaeology:* S. A. A. El Nasser, Elpis Mitropoulou. *English:* D. Carnegie, †J. T. Dodd, H. R. Fink, A. D. Grant, S. Greenbaum, Lea C. Klein, Edite Mason, C. J. Norman, S. H. M. Shirakawa. *French:* Denise E. M. N. Müller, Linda M. Schonfelder, M. C. Smith, Jennifer R. Walters. *General Linguistics:* A. Afolayan, R. M. W. Dixon. *Geography:* R. A. French, D. J. Robinson, J. D. B. Sheail. *Greek:* C. E. Hajistephanou, D. P. Stanley-Porter. *Hebrew:* L. C. Allen, D. Sperber. *History:* N. P. Cushner, C. R. Emery, L. M. Hill, J. S. Hurt, G. R. I. Neave, Janet Roebuck. *Latin:* P. McGushin. *Philosophy:* W. H. Hughes, G. Hunnings, R. Kirk. *Phonetics:* R. Ing, Y. Samareh. *Psychology:* Penelope M. Dixon, B. P. Frost, Judith M. Greene, V. S. Kardak, Ruby B. Yaryan. [41]

M.Phil. *Anthropology:* Joan K. Buckley, Suzanne A. Campbell-Jones. *English:* P. J. Beech, Rachel Freeman, B. M. Govett, Rosemary Leonard, Carolyn R. Nalbandian, Deirdre Pattison, J. C. Porter, Glenda Trussler. *Geography:* H. D. Clout. *Philosophy:* Margaret F. Cohen, R. M. J. Dammann. *Town Planning:* Helen Bali-Dragoumis, Rosemary C. J. Burton, P. C. Claydon, C. J. Craig, Caroline M. Dent, D. Edwards, P. W. Fox, G. H. Gilbar, C. M. Guy, N. Hamy, D. J. P. Hodkinson, A. O. G. Huth, Janet G. McDonald, Cathleen E. Moore, M. C. Poulton, A. F. Richardson, M. D. Sander, N. M. Taylor, R. C. Tuson, I. S. Walters. [33]

M.A. (Old Regs.) *English:* *†Rosamund S. Allen. *Geography:* I. G. Layton. [2]

M.A. (New Regs.) *Architecture:* Judith A. E. Jakmauh, R. C. Jones, T. C. Jones, P. G. Lancashire, E. B. P. Milburn, S. A. Morant, *D. G. Robson, K. A. Schweitzer, L. G. Wright. *Area Studies:* Juliana M. Brooks, Noël J. Dawnay, R. M. Doctoroff, M. W. Elmer, Ann Froines, Madeleine L. Geddes, F. J. McLynn, Ranee K. L. Panjabi, A. A. Rendell, L. T. Wolf. *History:* Helen Matheopoulos. *Librarianship:* *Peggy M. Bailey, S. Biswas, H. M. Kulkarni, Mumtaz Begum, Kwandee Rakpongse, R. E. Sturt, Winifred Todd, Lila S. Wijayatilake. *Philosophy:* A. H. Zaroug. [29]

University Postgraduate Diplomas: Archive Administration, 9; Classical Archaeology, 2; General Linguistics, 5; Librarianship, 52; Phonetics, 1; Psychology, 7; Social Anthropology, 3; Town Planning, 19. [98]

FACULTY OF ECONOMICS

D.Sc. (Econ.) ‡†W. R. Mead. [1]

*Awarded a mark of distinction. †Also registered at another Institution. ‡External.

M.Sc.in Economics *Economics:* D. E. Archer, J. Jackson, C. D. Jones, R. Turgoose. *Geography:* J. L. R. Singh. *International Relations:* C. G. Burnham, F. Edmead, K. Siddiqui, E. D. Stern, S. H. Tafilowski. *Planning Studies:* M. E. Bach, A. Davies. [12]

FACULTY OF LAWS

Ph.D. I. S. L. Agboola, D. O. Aihe, F. O. B. Babafemi, R. S. Lee. [4]

M.Phil. M. Y. Mirza. [1]

LL.M. (Old Regs.) ‡L. N. Agbala, B. A. Carew, ‡M. S. N. Dawood, ‡B. N. O. Evans, ‡E. O. Ezeanyika, ‡H. B. Fabunmi, J. K. Jegede, T. Mitsidis, N. Saha, J. A. Sanders, M. Sardar-Ud-Din. [11]

LL.M. (New Regs.) A. O. Aburime, T. A. B. Adenipekun, L. O. Akanle, Vidya W. Bagga, *P. B. H. Birks, A. J. Blackburn, T. R. Bredmeyer, G. A. Brennan, L. Camilleri Preziosi, T. P. D'Aquino, O. Eze, J. O. Fabunmi, A. V. Fisher, K. Frempong-Boadu, T. O. G. Haesler, M. A. Hakki, T. Huaraka, H. H. Jackson, M. A. Joshi, F. M. Kassam, T. A. Khan, R. D. McIntyre, *H. R. Nathan, L. M. C. Obba, J. F. O'Connor, M. Okyere-Boateng, A. D. S. Oliveira, M. S. Padmarajaiah, J. G. Rooney, S. Sealine, S. E. D. A. Suleiman, A. M. Sutton. [32]

University Postgraduate Diploma in Law, 7. [7]

FACULTY OF SCIENCE

Ph.D. *Anatomy:* G. E. Savage. *Astronomy:* R. A. Wells, A. E. Wright. *Biochemistry:* J. J. Barlow, N. E. Dance, P. J. Davey, M. Jacobs, Nell St G. Trezona. *Botany:* J. Ahmed, A. M. Hussain, P. C. L. John, Brenda Matfield, Arachchige S. Seneviratne, Subha Sen Gupta Ray. *Chemistry:* N. d. J. Barroeta Heredia, D. A. Bird, D. E. Butler, D. Cooper, P. D. Dacre, D. H. Davies, G. M. Fraser, T. G. Glover, C. J. Harding, P. G. Harrison, O. St C. Headley, J. M. Humphreys, M. A. Hussein, Ann M. Justice, P. A. Longstaff, T. N. Mitchell, M. M. Mohamed Aly, D. A. Oliver, P. R. Palan, D. J. Parker, C-K. Poon, R. J. Puddephatt. *Geography:* A. Brosh, R. U. Cooke, H. D. Foster, A. M. Harvey. *Geology:* R. A. Field, C. B. King. *Human Genetics:* W. H. James, W. H. P. Lewis. *Mathematics:* B. Choudhary, P. W. Norey, Jean P. Price. *Physics:* R. F. A. Abiodun, G. Bennett, A. G. Billings, A. P. Cordero Simunović, J. Cox, G. C. Hale, M. A. Hennell, B. M. Jones, J. C. Jones, H. Kasenally, R. G. Kirsopp, Susan P. Lovell, S. H. Makarious, Ong Phee Poo, H. Osborn, R. Perrin, K. M. Potter, F. M. Ragab, N. C. Roy, Margaret J. Samuel, J. F. D. R. Taborda, S. S. H. Tirmazi, O. Treutler, M. G. Uddin, J. H. Wickens. *Physiology:* P. H. Ellaway, A. J. Harris, M. E. Rosenberg. *Psychology:* Ellen Baker, C. Berry, C. K. Doyle, H. C. Plotkin. *Statistics:* Maxine P. M. Merrington. *Zoology:* V. C. Barber. [81]

M.Phil. *Biochemistry:* N. Rashed. *Botany:* Suzanne E. Arregger. *History and Philosophy of Science:* A. H. Cox, Diana E. Manuel. *Physiology:* Sandra M. Hansen. *Statistics:* †O. Abe. [6]

*Awarded a mark of distinction. †Also registered at another Institution. ‡ External.

M.Sc. *Biochemistry:* F. A. Pennington. *History and Philosophy of Science:* J. T. H. Beetham, B. Davies, B. Gee, G. A. Mitchell, D. R. Oldroyd, J. V. Pepper, J. Wartnaby. [8]

M.Sc. in Science *Architecture:* M. E. Arnold, P. S. Babb, M. S. Bukhari, A. J. Cohen, O. E. Hadley, J. C. Harbord, T. I. Jones, A. J. Major, M. N. Noakes. *Biochemical Engineering:* D. Litchfield. *Biochemistry:* M. J. Bevan, W. A. Bullough, *I. H. Evans, Necia C. France, A. M. Hawks, M. H. Joseph, G. E. Levin, J. G. Ratcliffe, Ruth L. Stephens, S. N. Young. *Conservation:* D. M. Beattie, M. Bolton, Hilary C. E. Brooke, A. L. Cardenas Colmenter, R. J. Douthwaite, Elizabeth B. Hoey, Anne E. Keeling, Katharine J. Michell, D. F. A. Steane, R. C. Wright. *Crystallography:* Supanich Pramatus. *Geography:* A. Q. Orchard. *History and Philosophy of the Natural Sciences:* R. N. D. Martin. *History of Science:* D. G. Baldwin, Freda E. Fairchild, R. Gowing, T. E. Macnamara, C. Money, P. K. Rablah, J. R. D. Stuart. *Micropalaeontology:* J. Backhouse, I. R. Hoskin, Judith A. Owen. *Physiology:* J. A. Coles, K. I. W. Floyd, Denyse M. S. Gautrin, W. O. Odiete, I. C. H. Smith. *Statistics:* Jill R. Busby, *W-k. Chiu, W. Fingland, Norma K. Humphreys, A. A. Korabinski, Gail E. McKeown, R. D. Nightingale, J. A. M. Richardson, D. A. Williams. [57]

FACULTY OF ENGINEERING

D.Sc. (Eng.) K. J. Ives. [1]

Ph.D. *Chemical:* D. S. Flynn, D. G. Kilburn, C. L. Leci, D. S. Mitchell, A. W. Nienow, A. G. Platts, R. P. Seebohm, A. K. Sharp, R. Unahabhokha. *Civil:* M. D. Adeyemo, A. J. Grass, R. M. W. Horner, K. Huseyin, G. M. McNeice, M. R. Prince, M. Shafi, P. R. Stopher, F. A. Van Duuren. *Electrical:* F. G. Bowden, W. Z. Fam, S. J. Hart, A. K. Kapur, A. Karim, S. Kongsala, G. I. Robertson, A. L. Saha. *Mechanical:* R. Collins, J. Cowley, M. J. Hall, I. Kavrak, J. B. Roberts, A. J. Wilson. *Photogrammetry and Surveying:* P. R. J. Boniface, M. W. Grist. [34]

M.Phil. *Civil:* R. Brain, M. A. Khan. [2]

M.Sc. in Engineering *Biochemical:* C. Burbidge, *Iris E. Pape, A. C. Roy. *Microwaves:* R. H. Anastas, M. Blondel, G. H. L. Childs, L-W. Chua, D. G. Corr, O. J. Davies, A. F. F. Dos Santos, R. W. Froud, R. E. Fudge, N. Lacey, M. C. Ng, Ong Jin Teong, D. C. Patel, J. F. St Ledger, J. K. Thomson, J. G. Underhill, D. C. Uppington. *Photogrammetry:* K. Jeyapalan. [21]

FACULTY OF MEDICINE

Ph.D. *Pharmacology:* M. W. Greaves. [1]

*Awarded a mark of distinction.

APPENDIX X

COLLEGE AND UNIVERSITY AWARDS TO STUDENTS

COLLEGE AWARDS

Anatomy Prizes.—Medical: A. C. Jones. *Dental:* S. R. Spencer.

Charlotte Ashby Prize (*Laws*).—G. S. Pearce.

Babcock & Wilcox Medal and Prize (*Mechanical Engineering*).—Marilyn Lord.

Herbert Batsford Prize (*Architecture*).—D. G. Palmer.

Thomas Witherden Batt Scholarships (*Science*).—J. L. Mason; J. M. Nicholas; R. H. Sillito; R. Stabbins.

Leonard Bayliss Memorial Prizes (*Physiology*).—P. E. Harrison-Read; J. C. Smaje.

Bayliss-Starling Memorial Scholarship (*Physiology and Biochemistry*).—I. C. H. Smith.

Francis Perch Bedford Prize (*Zoology*).—Brenda M. Page.

Bonney Prize (*Geology*).—G. J. Knox.

Brodrick-Parry Prize (*Geography*).—G. E. Hollis.

Margaret Browne Studentship (*Zoology*).—G. T. Alcorn.

The 'Building' Prize (*Architecture*).—(December 1967 award).—G. V. Welch.

Carey Foster Research Prizes (*Physics*).—Adrienne F. Timothy; J. G. Timothy.

The Chadwick Medal and Prize (*Civil Engineering*).—N. A. Smith.

Churchill-Jenkinson Prize (*Archive Administration*).—A. M. Jackson.

Antonio Cippico Medal and Prize (*Italian*).—M. J. Levy.

Clinton Prize (*Electrical Engineering*).—D. J. Faulkner and J. Woollven, Prize equally divided.

Cowley Prize (*Librarianship*).—Peggy M. Bailey.

Dawes Hicks Scholarship (*Philosophy*).—D. G. Mayers.

Donaldson Medal (*Architecture*).—N. G. Thomson.

Dunn and Wilson Award (*Librarianship*).—Thelma R. H. Bristow.

Early English Text Society's Prize.—J. Pilling and Rosemary C. J. Trevelyan, Prize equally divided.

Fantham Memorial Research Scholarship (*Zoology*).—B. M. Hanson.

Richard FitzGerald Prize (*Laws*).—Georgina S. Butler.

Sir Banister Fletcher Prize and Medal (*Architecture*).—D. G. Robson.

Foyle Prize (*Latin*).—S. G. York.

Edith Goodyear Prize (*Geology*).—T. A. Ghadhban.

Violet Hall Prize (*French*).—Elisabeth A. Bailey.

Archibald P. Head Medal and Prize (*Electrical Engineering*).—W. R. Dunkley.

Heimann Medal (*German*).—Rosemary A. Simpson.

Elsie Hitchcock Prize (*English*).—Rosemary S. Allsobrook and P. G. Diamond, Prize equally divided.

Hollier Scholarships in Greek.—J. F. Davidson; E. R. Fields.

R. B. Hounsfield Prize in Town Planning and Civic Engineering.—D. E. H. Chapman.

Hurst Prize in English Law.—R. R. Tager.

Institute of Electrical Engineers Prize.—D. J. Faulkner and J. Woollven, Prize equally divided.

Jackson Lewis Scholarships.—Carol Cameron; M. S. Grewal; Hilary F. J. Lane; D. G. Mayers; G. Orbell; J. B. Richardson; Mary E. Studley.

Jolowicz Prize (Roman Law).—A. Grant.

Ker Memorial Prize (English).—Caroline J. Campbell-Dixon and Sally B. Court, Prize equally divided.

Kitson Prize (Chemical Engineering).—D. J. Carpenter.

Librarianship and Archives Exhibitions.—Hilary E. Howe; Ann Walsh.

Sir John MacAlister Prizes (Librarianship).—Kathleen M. Ford; P. R. Reynolds.

Malden Scholarship (Greek).—E. R. Fields.

Medical Postgraduate Scholarship.—J. A. Coles.

Sir William Meyer Prize (Geography).—Christine E. Mann and C. M. Ruddlesden, Prize equally divided.

Sir William Meyer Prize (History).—D. C. A. Padovan.

Sir William Meyer Travelling Scholarships (History).—P. N. Guthrie; N. A. Hyman; B. C. Morgan; Maureen A. Warner.

John Stuart Mill Scholarship in Philosophy of Mind and Logic.—R. G. Beresford-Evans.

Momber Scholarship in Physics.—M. Jones.

Momber Scholarship in Science.—J. H. Redding.

Rosa Morison Postgraduate Scholarship in Arts.—A. Ingle.

Rosa Morison Scholarship in English Language and Literature.—Joan M. Lord.

Morley Medal (Modern English Literature).—G. C. Hammond.

Morris Prize (Geology).—D. J. Wallace.

Melvill Nettleship Prize for Figure Composition.—R. W. Hull.

Oliver Scholarship (Botany).—M. S. Grewal.

Catherine Maude Pearce Scholarship.—Mary E. Studley.

Perren Studentship (Astronomy).—T. J. Hext.

Physiology Prizes.—Medical: Elizabeth Evans. *Dental:* Judith Goldstein.

Platt Prizes (Greek).—Christine Marsters; R. J. Priestley.

Quain Studentship in Biology.—C. F. Thurston.

Ramsay Memorial Medal (Chemistry).—Linda Bower.

Mary Rischgitz Prize (Fine Art).—J. R. Goddard.

Graham Robertson Travelling Scholarship (Fine Art).—D. W. Dawson and Sara G. John, Scholarship equally divided.

Robert Scholarship in Fine Art.—P. Harrison.

L. M. Rothschild Scholarship (French).—Catherine M. Darrall.

Schafer Prize in Physiology.—O. C. J. Lippold.

Slade Scholarships (Fine Art).—Hilary F. J. Lane; B. Llewellyn-Jones; G. E. J. Newman.

Stevenson Prize (Applied Mathematics).—A. J. T. M. Ostoja-Ostaszewski.

Suckling Memorial Prize (*Practical Anatomy*).—Valerie J. Chambers.

Sir Andrew Taylor Prize in Architecture.—K. A. Schweitzer.

Henry Tonks Prize (*Fine Art*).—A. D. Amies.

Troughton Scholarship.—Hilary F. J. Lane.

Tuffnell Scholarship (*Chemistry*).—A. G. Knapp.

L. F. Vernon-Harcourt Prize (*Civil Engineering*).—D. M. Sargent.

Audrey Wykeham Prize (*Fine Art*).—A. T. Deboo.

FACULTY MEDALS AND PRIZES

Arts: Rosa Morison Medals and Prizes.—K. Graham; Joan M. Lord; Ada Rapoport; R. M. Smith.

Laws: Andrews Medal and Prize.—J. A. Paulson.

Science: Medals and Prizes.—P. E. Harrison-Read; G. E. Hollis; G. O. Humphreys; A. G. Knapp; Mary E. Studley.

Engineering: Goldsmid Medals and Prizes.—L. R. Fellingham; D. M. Sargent.

SESSIONAL PRIZES

Anthropology: Rosa Morison Prize.—Hermione G. Prosser.

Architecture: Bartlett Prizes.—(1) D. J. Clarke. (2) K. D. Sagar.

English: Campbell Clarke Scholarships.—(1) L. Morgan. (2) J. W. Wilkinson. *West Scholarship.*—Helen E. Taylor and Sarah E. Thesiger, Prize equally divided.

French: Rosa Morison Prizes.—(1) T. J. Down. (2) D. J. Hartley. (3) D. Macey.

Geography: College Prize.—R. J. Huggett. *Maconochie Prize.*—J. North. *1903 Prize.*—A. Crocker.

German: Robertson Prize.—J. M. Sharman. *Willoughby Prize.*—Margaret I. Morris.

Greek: Long Prize.—R. J. Holland.

History: Dolley Prize.—R. A. Brown and Sandra Dobney, Prize divided. *Pollard Prize.*—N. A. Hyman. *West Prize.*—P. N. Guthrie.

Italian: Sir Anthony Panizzi Prize.—Linda M. Constant.

Latin: Key Prize.—R. J. Holland and A. Smithies, Prize equally divided.

Political Economy: Hume-Lloyd Scholarships.—(1) R. D. Attridge. (2) Anne P. N. Evans. (3) P. T. Jowers.

Laws: Andrews Prizes.—(1) N. C. Attewell. (2) Jill E. Aukland. (3) J. E. McGlyne. (4) M. M. Martin. (5) B. Smythe.

Astronomy: Huggins Prize.—J. R. Power.

Biochemistry: Jack Drummond Prize.—Barbara M. F. Pearse. *Plimmer Prize.*—J. A. Craft.

Botany: Darwin Prize.—J. M. Harvey. *Robert Hooke Prize.*—D. A. Coates.

Chemistry: C. K. Ingold Prizes.—(1) G. S. Bailey. (2) J. Barnard. (3) J. H. Rees.

Geology: Chubb Prize.—M. T. Cotton and Carol A. Walker, Prize equally divided.

Mathematics: Filon Prize.—I. C. Walton. *Hill Prize.*—A. J. M. T. Ostoja-Ostaszewski. *Jeffery Prize.*—J. M. Giddings.

Physics: William Bragg Prize.—D. R. Quarrie. *Oliver Lodge Prize.*—T. H. Massey and Valerie E. Tross, Prize equally divided. *Wood Prize.*—M. Daniel and C. F. Rodgers, Prize equally divided.

Physiology: Sanderson Prize.—M. J. Hunter and Marilyn P. Law, Prize equally divided.

Psychology: McDougall Prize.—C. F. Owen. *Spearman Prize.*—G. D. Gaskell.

Statistics: Egon Pearson Prize.—Low Wan Loy. *Karl Pearson Prize.*—A. O'Hagan.

Zoology: (1) Valerie E. Wells. (2) Heather E. Whiting.

Chemical Engineering: Goldsmid Prizes.—(1) A. W. Brench. (2) D. P. Gresham.

Civil and Municipal Engineering: Goldsmid Prizes.—(1) G. H. G. Lewis. (2) G. W. Wilkinson.

Electrical Engineering: Goldsmid Prizes.—(1) M. B. Warburton. (2) E. G. Pretty.

Mechanical Engineering: Goldsmid Prizes.—(1) L. Shepherd. (2) M. Sarajčić.

UNIVERSITY AWARDS

UNIVERSITY POSTGRADUATE STUDENTSHIPS

Chemistry: F. L. Pearce. *English:* Jennifer M. Hunt. *French:* Madeline E. Mayes; Elizabeth A. Norton; Jennifer A. L. Powell. *Geography:* J. H. Connell; M. J. Taylor. *German:* A. B. Chatfield. *Hebrew:* *M. H. Newman. *Physics:* D. N. Tovee.

FINALS STUDENTSHIPS

Anatomy: T. R. Price. *Botany:* Mary E. Studley. *Chemistry:* A. G. Knapp (and Neil Arnott Studentship). *Classics:* D. Hughes (and Arthur Platt Studentship). *Engineering:* L. R. Fellingham; P. K. Y. Tsang. *English:* P. G. Diamond; G. C. Hammond. *Fine Art:* J. R. Goddard. *Geography:* G. E. Hollis. *Hebrew:* Ada Rapoport. *Italian:* K. P. Rink. *Physiology:* P. E. Harrison-Read.

*Also registered at Jews' College.

APPENDIX XI

UNIVERSITY FIRST DEGREE AND DIPLOMA EXAMINATION RESULTS

FACULTY OF ARTS

B.A. Honours	1st Class Honours	2nd Class Honours Upper Div.	2nd Class Honours Lower Div.	3rd Class Honours	Total
Anthropology	1	2	5	1	9
Classics	1	3	2	4	10
English	6	13	12	3	34
French	3	16	7	2	28
Geography	2	18	11	—	31
German	5	6	2	—	13
Hebrew	—	1	1	2	4
Hebrew Lit. & Jewish History	1	—	—	—	1
History	3	11	11	3	28
Italian	1	2	3	1	7
Philosophy	3	8	8	1	20
Philosophy & Economics	—	1	—	—	1
Philosophy & Psychology	—	—	1	—	1
Psychology	—	4	5	1	10
Scandinavian Languages	—	1	2	1	4
	26	86	70	19	201

B.A. Honours in Architecture, Planning and Building	1st Class Honours	2nd Class Honours Upper Div.	2nd Class Honours Lower Div.	3rd Class Honours	Total
	2	—	1	2	5

University Diploma in Fine Art: 25 students passed.

FACULTY OF LAWS

	1st Class Honours	2nd Class Honours Upper Div.	2nd Class Honours Lower Div.	3rd Class Honours	Pass	Total
LL.B.	5	30	37	17	7	96

FACULTY OF SCIENCE

B.Sc. (Special)	1st Class Honours	2nd Class Honours Upper Div.	2nd Class Honours Lower Div.	3rd Class Honours	Pass	Total
Anthropology	—	4	—	—	—	4
Astronomy	1	1	1	1	—	4
Biochemistry	6	5	6	2	—	19
Botany	2	2	1	3	1	9
Chemistry	11	14	10	6	2	43
Geography	1	9	14	—	—	24
Geology	1	8	6	3	—	18
Mathematics	9	10	14*	9	1	43
Microbiology	2	4	6	—	1	13
Physics	9	14	13	10	3	49
Physiology	—	—	4	—	—	4
Psychology	3	7	6	3	—	19
Statistics	3	3	5	2	1	14
Zoology	1	8	3	1	1	14
	49	89	89	40	10	277

*1 candidate also registered at Birkbeck College.

B.Sc. Degree (Old Regulations)	Pass	Total
Chemistry	5	5
Geology	2	2
Mathematics	2	2
Physics	4	4
Statistics	3	3
	16	16

New B.Sc. Degree	1st Class Honours	2nd Class Honours Upper Div.	2nd Class Honours Lower Div.	3rd Class Honours	Total
Anatomy	3	1	3	—	7
Biochemistry	—	—	1	1	2
Pharmacology	2	4	1	—	7
Physiology	4	3	3	—	10
	9	8	8	1	26

B.Sc.(Special) in Architecture, Planning and Building	1st Class Honours	2nd Class Honours Upper Div.	2nd Class Honours Lower Div.	3rd Class Honours	Total
	2	8	9	6	25

FACULTY OF ENGINEERING

	1st Class Honours	2nd Class Honours Upper Div.	2nd Class Honours Lower Div.	3rd Class Honours	Pass	Total
B.Sc. (Engineering)	14	20	31	20	5	90
B.Sc. (Engineering) in Chemical Engineering	6	3	4	7	1	21

FACULTY OF ECONOMICS

	1st Class Honours	2nd Class Honours Upper Div.	2nd Class Honours Lower Div.	3rd Class Honours	Pass	Total
B.Sc. (Economics)	—	17	30	8	1	56

FACULTY OF MEDICINE

Second Examination for Medical Degrees: 98 students passed.

Second Examination for Dental Degrees: 48 students passed.

COLLEGE DIPLOMAS AND CERTIFICATES

FACULTY OF ARTS

Certificate in Landscape Design: Ari Armony; Peter Bareham; Jean Fullerton Brown; Eric William Dash; Peter John Deakins; Charles Nicolas Fernley; Geoffrey Derek Ford; Teresa Krystyna Hartry; John William Boyd Hawkins; Sara Hope Race; John Christopher Randall; Martin Reynolds Taylor. [12]

Certificate of Proficiency in Phonetics: Palmer Acheson; Shahnaz Akhtar; Daniel Cantinelli; Linda Marion Constant; John Ellis Dawson; William Talfryn Dolling; Malcolm Peter Eastwood; Cedric William Fisher; Francis Henry Fricker; Ivan Hall; Vittoria Hunt; Françoise Michèle Lanoe; Felicity Alison Lowes; Jeannette Freda Nelson; Francis Joseph Rochla; Jill Rodd; Alice Augustine Emilie Rome; Peter Henry Orrell Snow; Julia Margaret Stammers; Barbara Ann Stewart; John Trumper; Edith Varod; Henriette Vautrin; Michel Blaise Louis Viens; Susan Gidley Wheeler; Jean Valerie Wilson; Margaret Wood. [27]

Certificate in Town Planning: Dharam Prakash Berry; Henry Brinkworth; David Edwin Harold Chapman; Richard Francis Coombs; John Melvyn Daldry; Douglas John Drake; Colin George Johns; Dennis Stanley James Last; Kanwal Krishna Madan; Jules Michel Charles Somerset Malfroy; Ian Douglas Mathieson; Sambasiva Natarajan; George Noble; Felix George Ogbonnah; Jacqueline Elizabeth Partridge; David Thomas Patterson; Ronald Sidney Riggs; Philip Lindsay Sulley; Malcolm Ian Douglas Sutherland; Vivien June Tabor; Hughes Albert Joseph Van der Stegen de Schrieck; Philip Robin Whitbourn; Richard Geoffrey Worthington. [23]

FACULTY OF SCIENCE

Diploma in Space Science: Richard John Fryer; Alfred William Odell; Thomas James Punter; Gerald Maurice Webb. [4]

FACULTY OF ENGINEERING

Diploma in Biochemical Engineering: Colin Burbidge; David Litchfield; Iris Elizabeth Pape; Ashim Chandra Roy. [4]

Diploma in Chemical Engineering: Martin John Bell; Douglas William Benjafield; Ronald Mackinnon Bissett; John Jeffrey Branston; Murari Chakraborty; Graham Douglas Creedy; John Ansel Goldsmith; Ronald Hanks; Muhammad Anwar-Ul Haq; Alain Robert Hirst; Donald George Kiddle. [11]

Diploma in Microwave Engineering: Ramzy Hanna Anastas; Michel Blondel; Geoffrey Henry Llewellyn Childs; Lye-Whatt Chua; Douglas George Corr; Owen John Davies; Antonio Francisco Ferreira Dos Santos; Roderick Wilson Froud; Roger Edward Fudge; Amarkumar Bhagat Ram Goyal; Nigel Lacey; Stuart Robert Longley; Meng Chiang Ng; Ong Jin Teong; Dinesh Chhotabhai Patel; John Frederick St Ledger; Ajay Kumar Sharma; James Kenneth Thomson; John Grant Underhill; David Charles Uppington. [20]

Diploma in Photogrammetry: Robert Lindsay Collin; Geoffrey Robert Gathercole; Khin Maung Phoneko; Alastair Stronach Macdonald; Armando Eduardo Carvalho Sépulveda. [5]

Diploma in Surveying: Neil Marsden. [1]

BENEFACTIONS AND DONATIONS

The College Committee makes grateful acknowledgment of the following gifts:

Anonymous

A further donation, this time of £300,000, for a hall of residence for men students, adjacent to Ramsay Hall, on the Whitfield Street frontage.

Association for the Aid of Crippled Children

A grant of $6,160 for research in the Department of Animal Genetics on disturbances of oxidative metabolism as a cause of teratogenesis.

The British Academy

A grant of £1,500 for 1967–68 towards the cost of the production of a definitive edition of the works of Jeremy Bentham.

British Egg Marketing Board

A grant of £700 for research in the Department of Anatomy and Embryology on the transportation of egg yolk proteins.

British Empire Cancer Campaign for Research

A grant of £954 for research in the Department of Pharmacology on tumour immunology.

British Phrenological Society (Incorporated)

A grant of £727 for the Sub-Department of History of Medicine in the Department of Anatomy and Embryology for research into the functions of the brain and nervous system which shall not involve experiments with living animals.

British Railways Board

(1) A grant of £2,794 for research in the Department of Electronic and Electrical Engineering on surface waveguides.

(2) A supplementary grant of £48 for an investigation in the Department of Mechanical Engineering into the oscillation of rolling stock.

British Titan Products Company Limited

A grant of £780 for a post-doctoral research fellowship in the Department of Chemistry.

California Foundation for Biochemical Research

A grant of $1,500 for 1967–68 and a grant of $1,500 for 1968–69 for a studentship in the Department of Botany.

Carnegie Endowment for International Peace

A grant of $17,400 for the Department of Laws for partial support of the Centre for the Analysis of Conflict.

Centre for Environmental Studies

A grant of £43,486 for research in the Department of Architecture on the networks of urban activities and developing patterns of urbanisation.

Civil Engineering Research Association

A grant of £6,200 for research in the Department of Civil and Municipal Engineering on ion exchange in waste-water renovation.

Cold Rolled Sections Association

A grant of £1,250 for research in the Department of Civil and Municipal Engineering on cold rolled sections.

The Ernest Cook Trust

A grant of £15,000 per annum for seven years to enable a Chair and supporting posts to be created for work in the field of Country Planning at University College London and Wye College. The Ernest Cook Chair of Countryside Planning will be tenable jointly at the two Colleges, and at University College will be attached to the Department of Town Planning.

Department of Education and Science

(1) A grant of £12,104 for research in the Department of Architecture on the use of space and facilities in universities.

(2) A grant of £15,705 for research in the Department of English Language and Literature on a survey of English usage.

Diamond Corporation

A grant of £1,000 for research in the Department of Chemistry on diamonds.

Esso Exploration Inc.

A grant of £300 for the Department of Geology for a study of the Western approaches to the English Channel.

Esso Petroleum Co. Limited

A grant of £300 for research in the Department of Chemistry on a programme of spectroscopic problems.

Ethicon Inc. (New Jersey, U.S.A.)

A grant of $1,000 for research in the Department of Physiology.

Federal Water Pollution Control Administration

A grant of $2,729 for research in the Department of Civil and Municipal Engineering on multilayer filtration.

Sir Banister Fletcher Trust Fund, University of London

A grant of £200 in respect of the visit in October 1967 of Professor Walter Gropius to give a lecture sponsored by the Bartlett School of Architecture and associated with the name of Sir Banister Fletcher.

Foundations' Fund for Research in Psychiatry

A grant of $26,880 for research in the Department of Anatomy and Embryology on behaviour related to two parallel sensory pathways.

General Electric Company (New York)

A grant of £3,000 for research in the Department of Electronic and Electrical Engineering in the area of acoustic holography.

Granada Television Limited

(1) A grant of £4,000 for the Slade School of Fine Art to defray a proportion of the salaries and revenue expenses of the Unit for the Study of Film.

(2) A grant of £1,000 for the Slade School of Fine Art, being the balance required towards the cost of providing accommodation at 20 Flaxman Terrace for the Unit for the Study of Film.

Greater London Council

A grant of £200 and a supplementary grant of £100 for research in the Department of Architecture on the acoustics of concert halls.

Home Office

A grant of £2,440 for research in the Department of Psychology on recidivism of young offenders.

International Business Machines

A grant of £815 for a fellowship in the Department of Physics.

Imperial Chemical Industries Limited

(1) A grant of £1,415 for the Department of Chemistry for the purchase of a chromatogram scanner on permanent loan.

(2) A grant of £777 per annum for three years for a research studentship in the Department of Chemistry.

(3) A grant of £750 for research in the Department of Chemistry on fluorine chemistry.

(4) A grant of £600 for research in the Department of Chemistry on the kinetics of thermal decomposition of chlorohydrocarbons.

Institution of Mining and Metallurgy

A grant of £290 for research in the Department of Geology on rock breakage.

Sir Percival Maitland Laurence Fund, University of Cambridge

A grant of £3,000 for work in the Department of Greek on papyri.

Leverhulme Trust

A grant of £10,000 for the Department of Architecture for the study of the design process and the method of education for design.

London Transport

A grant of £6,000 for research in the Department of Psychology on the problems of training bus drivers.

Dr R. J. Ludford

A bequest of £100 for the purchase of silver plate for the use of the staff and Fellows of the College.

Marks and Spencer Limited

A grant of £3,500 towards the cost of building an extension on the top three floors of the Biological Sciences Building.

Medical Research Council

(1) A grant of £7,089 and a supplementary grant of £538 for research in the Department of Anatomy and Embryology on the problems of hard tissue development and structure, physiological resorption and pathological destruction.

(2) A grant of £6,060 for research in the Department of Biochemistry on cell envelopes of *Pseudomonas aeruginosa* and their relationship to its antibiotic and antiseptic resistance.

(3) A grant of £4,560 and a supplementary grant of £900 for research in the Department of Biochemistry on the comparison of wild-type and mutant amidase proteins from *Pseudomonas aeruginosa*.

(4) A grant of £900 for research in the Department of Biochemistry on hormones and protein synthesis in muscle.

(5) Grants of £1,403, £7,800, and £1,002 for research in the Department of Biophysics on the mechanism of visual excitation.

(6) A grant of £3,725 for a study in the Department of Biophysics of calcium fluxes in the frog heart.

(7) A grant of £3,484 for research in the Department of Biophysics on photoconductive changes in rod outer segments.

(8) A supplementary grant of £500 for research in the Department of Biophysics on relations between ions and metabolism.

(9) A grant of £4,070 for the Department of Chemistry for crystallographic studies of urinary calculi and other concretions.

(10) A grant of £1,470 for research in the Department of Chemistry on the structure and biological activity of wasp venom kinins.

(11) A grant of £83 for research in the Department of Chemistry on enzymic transamination.

(12) A grant of £1,300 for research in the Department of Mechanical Engineering on portable energy supplies for powered prostheses.

(13) A grant of £27,620 for research in the Faculty of Medical Sciences on neurophysiology and data processing laboratories.

(14) A grant of £8,427 for research in the Department of Pharmacology on the analysis of drug dependence in rats.

(15) A grant of £4,528 for research in the Department of Pharmacology on the identification of urogastrone.

(16) A grant of £4,021 for research in the Department of Pharmacology on the effect of psychotropic drugs on the E.E.G. response to flicker.

(17) A grant of £3,835 for research in the Department of Pharmacology on the effect of catecholamines on the membrane potential and ionic permeability of hepatic cells.

(18) A grant of £1,610 for research in the Department of Pharmacology on the process of resensitization (or recovery from desensitization) in smooth muscle after the anaphylactic reaction.

(19) A supplementary grant of £50 for research in the Department of Pharmacology on the comparison of biochemical and morphological changes occurring in isolated cells during anaphylaxis.

(20) A grant of £6,435 and a supplementary grant of £167 for research in the Department of Physiology on the origin of alpha rhythm as tremor of the extraocular muscles.

(21) A grant of £5,618 for various programmes of research in the Department of Physiology.

(22) A grant of £3,010 for research in the Department of Physiology on the control of sustained regular discharges of fusimotor neurones to hind limb muscles of the mammal.

(23) A grant of £2,335 for research in the Department of Physiology on column chromatography of proteins.

(24) A grant of £1,856 for research in the Department of Physiology on the biochemistry and energetics of living muscles.

(25) A grant of £949 for research in the Department of Physiology on central control of muscle spindles.

(26) A grant of £888 for research in the Department of Physiology on the time-course of chemical change during muscular contraction.

(27) A grant of £656 for the Department of Physiology for studies of the properties of isolated muscles during contraction and relaxation.

(28) Grants of £21,987 and £5,115 for research projects in the Departments of Psychology and Phonetics.

(29) A grant of £4,086 for research in the Departments of Psychology and Phonetics on the effect of linguistic variables upon cognitive performance.

(30) A grant of £4,547 for research in the Department of Zoology and Comparative Anatomy on cell locomotion, cell metabolism and the cell surface.

Ministry of Defence

A grant of £3,278 for the study in the Department of Electronic and Electrical Engineering of correlation techniques for time delay measurement.

Ministry of Defence (Navy)

(1) A grant of £14,378 for the Department of Electronic and Electrical Engineering for the study of the possible use of the Gunn Effect in an amplification mode.

(2) A grant of £3,207 for research in the Department of Electronic and Electrical Engineering on large signal operation of D.C. pumped ring valve.

(3) A grant of £1,339 for the Department of Electronic and Electrical Engineering for the study of growing wave interactions in periodically perturbed semiconductors.

Ministry of Health

(1) A grant of £16,869 and a supplementary grant of £1,500 for the Department of Architecture for a study of the effect of noise on people in hospitals.

(2) A supplementary grant of £400 for research in the Department of Mechanical Engineering on the control of artificial arms.

Ministry of Labour

A grant of £60,000 for the Department of Psychology for research projects at the Industrial Training Research Unit.

Ministry of Public Building & Works

(1) A grant of £6,000 for the Department of Architecture for a study of the timetable of the building process.

(2) A supplementary grant of £42 for the Department of Architecture for a study of statistics for the construction industry.

Ministry of Technology

(1) A grant of £2,157 for research in the Department of Chemical Engineering on particle mixing in gas fluidised beds.

(2) A grant of £1,574 for research in the Department of Chemical Engineering on spontaneous ignition of pure hydrocarbons.

(3) A grant of £1,379 for research in the Department of Chemical Engineering on catalytic combustion of hydrocarbons.

(4) A grant of £3,408 for research in the Department of Chemistry on rare earth chelate complexes.

(5) A grant of £2,315 for research in the Department of Chemistry on strengths of chemical bonds.

(6) A grant of £2,220 for research in the Department of Chemistry on the experimental comparison of bond strengths of various inorganic links of interest in the high temperature polymer field.

(7) A grant of £2,239 for the Department of Civil and Municipal Engineering for fibre-matrix stress studies in reinforced polymers.

(8) A grant of £4,703 for research in the Department of Electronic and Electrical Engineering on acoustic surface wave techniques.

(9) A grant of £2,564 for a study in the Department of Electronic and Electrical Engineering of solar induced interference at microwave frequencies.

(10) A grant of £620 for research in the Department of Electronic and Electrical Engineering on optimisation of partially filled array aerials.

(11) A grant of £325 for the Department of Electronic and Electrical Engineering for an investigation of V.H.F. radio propagation.

(12) A grant of £2,934 for the Department of Mathematics for a theoretical investigation of wing-body interaction.

(13) A grant of £3,542 and a supplementary grant of £121 for research in the Department of Mechanical Engineering on fatigue behaviour of close-packed hexagonal metals and prediction of fatigue behaviour in non-magnetic metals.

(14) A grant of £2,626 for research in the Department of Mechanical Engineering on the performance of flame traps under given conditions.

(15) A grant of £1,778 and a supplementary grant of £150 for research in the Department of Mechanical Engineering on cumulative fatigue damage.

(16) A grant of £583 for research in the Department of Mechanical Engineering on packaging dynamics.

Muscular Dystrophy Associations of America, Inc.

A grant of $6,800 for research in the Department of Biophysics on the role of ionic interactions in metabolic control.

Muscular Dystrophy Association of Canada

A grant of $500 for 1967–68 and a grant of $500 for 1968–69 for fellowship expenses in the Department of Human Genetics and Biometry.

National Fund for Research into Crippling Diseases

(1) A grant of £29,700 towards the cost of the scheme for extension and alterations to the Faculty of Medical Sciences Building to provide a substantial increase in the space available for research.

(2) A grant of £8,703 for research in the Department of Human Genetics and Biometry on the genetics and biochemistry of tuberous sclerosis.

(3) A grant of £4,986 for the Department of Human Genetics and Biometry for an analysis of data on births with congenital malformation, still births and neonatal deaths.

(4) A grant of £1,207 for a research fellowship in the Department of Mechanical Engineering.

(5) A grant of £1,606 for research in the Department of Physiology on 'Plastic' changes induced in the central nervous system.

National Research Development Corporation

(1) A grant of £3,300 for research in the Department of Chemical Engineering on polymer bound enzymes.

(2) A grant of £1,750 for research in the Department of Chemistry on peptides from bee venom.

Natural Environment Research Council

(1) A grant of £806 for research in the Department of Geography on ecology of shifting cultivation in the Upper Orinoco Area, Venezuela.

(2) Supplementary grants of £1,898 and £7,500 for research in the Department of Geology on the effects of pressure and temperature on the deformation and fracture of rocks, mineral crystals and related materials with particular application to problems of geotectonics.

(3) A grant of £5,000 for an investigation in the Department of Zoology and Comparative Anatomy of the fauna of Upper Triassic Beds of Lesotho.

(4) A grant of £4,735 for research in the Department of Zoology and Comparative Anatomy on mesozoic vertebrate and continental sediments of Britain and India.

(5) A grant of £3,953 for research in the Department of Zoology and Comparative Anatomy on population metabolism and energy flow in the soil fauna.

North Atlantic Council

A grant of $6,966 for the Department of Chemistry for reactivity infra-red x-ray and catalytic studies on d-8 complexes.

North Atlantic Treaty Organisation

A grant of $7,300 for research in the Department of Chemistry and at the University of Bologna on centrifugal distortion and molecular force fields.

Office for Scientific and Technical Information

(1) A grant of £2,250 for the appointment of a liaison scientist for chemical information exercise in the Department of Chemistry.

(2) A supplementary grant of £435 for research in the Department of General Linguistics on the linguistic properties of scientific English.

(3) A grant of £300 for the Department of General Linguistics for the production of a report on the project 'Linguistic Properties of Scientific English'.

Royal Institute of British Architects

A grant of £400 for the Department of Architecture for an analysis of problem structure in architectural design.

Royal National Institute for the Blind

A grant of £200 for research in the Department of Biochemistry on metabolism of the retina.

The Royal Society

(1) A grant of £50 for the Department of Astronomy for the maintenance of world data centre 'C' for sudden ionospheric disturbances.

(2) A grant of £250 for research in the Department of Botany on nucleo-cytoplasmic interactions in female reproductive cells of plants.

(3) A grant of £20,288 and a supplementary grant of £200 for a Royal Society Research Professorship, assistance and expenses in the Department of Chemistry.

(4) A grant of £1,000 for the Department of Chemistry for adsorption studies using field ionisation and field emission microscopy.

(5) A grant of £800 for research in the Department of Chemistry on a programme of spectroscopic problems.

(6) A grant of £750 for research in the Department of Chemistry on para-magnetic anisotropies of transition metal complexes.

(7) A grant of £1,316 for the Department of Pharmacology for scintillation counter for the detection of labelled penicillin-protein antigens.

(8) A grant of £1,500 for research in the Department of Physiology on the chemical energetics of muscular contraction.

(9) A grant of £2,675 for the renewal of the tropical research fellowship in the Department of Zoology and Comparative Anatomy.

(10) A grant of £838 for recurrent expenses in connection with the tropical research fellowship in the Department of Zoology and Comparative Anatomy.

SCIENCE RESEARCH COUNCIL

(1) A grant of £2,866 for research in the Department of Architecture on the relationship between light and space in buildings.

(2) A grant of £846 for the Department of Astronomy for equipment for visual observers of satellites.

(3) A supplementary grant of £150 for the Department of Biochemistry for spectropolarimetric investigations of the mechanism of enzyme action.

(4) A supplementary grant of £50 for research in the Department of Biochemistry on protein synthesis in mitochondria.

(5) A grant of £19,159 for research in the Department of Chemical Engineering on crystallization from solution.

(6) A grant of £7,040 for research in the Department of Chemical Engineering on transport property measurements in turbulent flow of dilute polymer solutions.

(7) A supplementary grant of £1,076 for the Department of Chemical Engineering for a mass spectrometric study of free radical intermediates in slow combustion reactions.

(8) A grant of £17,450 for research in the Departments of Chemical Engineering and Botany on large scale isolation of enzymes.

(9) A grant of £25,568 for the Department of Chemistry for a mass spectroscopic study of inorganic systems.

(10) A grant of £19,432 for research in the Department of Chemistry with Foner vibrating sample magnetometer.

(11) A grant of £6,478 for research in the Department of Chemistry on the automation of crystallographic research.

(12) A grant of £5,630 for research in the Department of Chemistry on reactivity of co-ordinated organic groups.

(13) A grant of £3,572 for the Department of Chemistry for a study of the structure of carbonyls.

(14) A grant of £3,450 for research in the Department of Chemistry on the use of C.D. in interpreting spectra of metal complexes.

(15) A grant of £3,180 for research in the Department of Chemistry on homolytic autoxidation of organometallic compounds.

(16) A grant of £3,180 and a supplementary grant of £170 for research in the Department of Chemistry on organometallic chemistry of the early transition elements.

(17) A grant of £3,180 for research in the Department of Chemistry on stereochemistry of hydrogen-deuterium exchange of positive nitrogen.

(18) A grant of £3,114 for research in the Department of Chemistry on centrifugal distortion and force fields for simple asymmetric rotor molecules.

(19) A grant of £2,954 for research in the Department of Chemistry on nuclear quadrupole resonance spectra of inorganic molecules.

(20) A grant of £2,535 for research in the Department of Chemistry on the interaction of certain nitrogen oxides with polycrystalline evaporated metal films.

(21) A grant of £2,384 for research in the Department of Chemistry on symmetry-allowed cyclo additions involving carbonium ions.

(22) A grant of £2,160 and a supplementary grant of £47 for research in the Department of Chemistry on high resolution molecular electronic spectroscopy.

(23) A grant of £1,100 for research in the Department of Chemistry on ionization of organic substrates in the gas-phase and in solution.

(24) A grant of £944 for research in the Department of Chemistry on vacuum ultraviolet spectroscopy.

(25) A grant of £355 for research in the Department of Chemistry on the applications of mass spectrometry to Chemistry.

(26) A supplementary grant of £120 for research in the Department of Chemistry on heterolysis in the gas phase.

(27) A supplementary grant of £95 for the Department of Chemistry for nuclear quadrupole resonance research on problems of bonding in transition metal complexes.

(28) A grant of £17 for the Department of Chemistry for neutron diffraction studies on single crystals of platinum compounds.

(29) A grant of £51,435 for research in the Departments of Chemistry and Physics on the applications of molecular beams to the study of chemical reactions.

(30) A grant of £12,425 for research in the Department of Civil and Municipal Engineering on the nature of turbulence in hydraulic channels and its effect on sediment transport and scour.

(31) A grant of £7,825 for research in the Department of Civil and Municipal Engineering on statistical measurements of anisotropy in granular soils.

(32) A grant of £6,000 for research in the Department of Civil and Municipal Engineering on the design of urban road networks.

(33) A grant of £1,675 for research in the Department of Civil and Municipal Engineering on the stability of imperfect structures.

(34) A grant of £12,820 for research in the Department of Electronic and Electrical Engineering on hybrid microwave integrated circuits for multiple device C.W. power sources.

(35) A grant of £9,252 for research in the Department of Electronic and Electrical Engineering on acoustics holography for observations of defects in solids.

(36) A grant of £5,772 for research in the Department of Electronic and Electrical Engineering on harmonic effects in semiconductor avalanche microwave generators.

(37) A grant of £700 for research in the Department of Electronic and Electrical Engineering on the development of a novel form of electro-mechanical actuator.

(38) A grant of £3,146 for research in the Department of Phonetics on time-cues in the generation and reception of speech.

(39) A grant of £509,000 and a supplementary grant of £5,738 for the Department of Physics for geophysical and astronomical researches in Space.

(40) A grant of £42,512 for atmospheric structure research in the Department of Physics.

(41) A grant of £10,050 for the Department of Physics for the analysis of Gargamelle and other bubble chamber photographs.

(42) A grant of £9,800 for the Department of Physics for on-line experiments with NIMROD at the Rutherford High Energy Laboratory.

(43) A grant of £7,495 for the Department of Physics for the study of hydrogen 2S metastable atoms.

(44) A grant of £6,854 for research in the Department of Physics on the development of a stored charge image reader for astronomical use.

(45) A grant of £6,745 for research in the Department of Physics by the emulsion group.

(46) A grant of £3,500 for research in the Department of Physics on infra-red astronomy.

(47) A supplementary grant of £1,966 for research in the Department of Physics on collisional excitation of forbidden lines in gaseous nebulae.

(48) A grant of £1,225 for the analysis in the Department of Physics of bubble chamber photographs from CERN and the Rutherford Laboratory.

(49) A supplementary grant of £1,164 for the Department of Physics for infra-red studies with balloon-borne equipment.

(50) A supplementary grant of £1,035 for research in the Department of Physics on variational techniques in electron scattering.

(51) A grant of £776 for the Department of Physics for a programme of co-operative research with Commonwealth scientists.

(52) A grant of £5,987 for research in the Department of Psychology on conditional probability, readiness and reaction time.

(53) A grant of £2,720 for research in the Department of Zoology and Comparative Anatomy on the embryology of anuran amphibia.

Social Science Research Council

(1) A grant of £6,820 for the Department of Anthropology for the study of cultural responses to innovation in S. Tanzania with special reference to the history of the Ngindo.

(2) A grant of £3,588 and a supplementary grant of £338 for research in the Department of Laws on the role of law in industrial safety.

(3) A grant of £9,636 for research in the Department of Phonetics on cognitive processes in simultaneous translation.

Span Kent Limited

A grant of £4,000 for the Department of Architecture for surveys relating to the social development of New Ash Green.

The Swedish Institute for Cultural Relations

A grant of £100 for 1966–67, being a contribution towards the allowance payable to a visiting Professor of Scandinavian Studies.

Treatise on Invertebrate Palaeontology

A grant of $2,675 to provide assistance in the Department of Geology for the revision of Part L of the Treatise.

Unilever Limited

A grant of £850 per annum for three years for research in the Department of Chemistry in connection with terpene Chemistry.

United Kingdom Atomic Energy Authority

A grant of £6,400 for research in the Department of Physics on electron-ion recombination in carbon dioxide.

United States Air Force

(1) A grant of $13,000 for research in the Department of Anatomy and Embryology on anatomical localization of target learning and memory.

(2) A grant of $8,000 for research in the Department of Phonetics on the perception of speech and allied stimuli.

(3) A grant of $30,000 for research in the Department of Physics on the determination of air density, temperature and winds at high altitudes.

United States Public Health Service

(1) A grant of $1,000 for a fellowship supply allowance in the Department of Anatomy and Embryology.

(2) Two grants of $1,000 each for fellowship supply allowances in the Department of Biophysics.

(3) Grants of $1,000 and $250 for fellowship supply allowances in the Department of Chemistry.

(4) A grant of $1,000 for a fellowship supply allowance in the Department of Human Genetics and Biometry.

(5) A grant of $43,311 for research in the Departments of Pharmacology and Psychology, and in the Department of Psychology, Birkbeck College, on the psychopharmacology of learning, perception and skill.

Wates Limited

(1) Two grants of £2,000 each for a study in the Department of Architecture of the circumstances of land acquisition at Forestdale Estate.

(2) A grant of £1,000 towards the cost of building an extension on the top three floors of the Biological Sciences Building.

Professor T. B. L. Webster

Gift of a Greek vase to the Department of Archaeology.

The Wellcome Trust

(1) A grant of £85,600 towards the cost of the scheme for extension and alterations to the Medical Sciences Building to provide a substantial increase in the space available for research.

(2) An additional grant of £20,000 towards the cost of building an extension on the top three floors of the Biological Sciences Building.

(3) A grant of £2,521 for research in the Department of Biophysics on neuromuscular transmission.

(4) A grant of £1,000 for research in the Department of Biophysics on the transfer of electrolytes in cells, with particular reference to red blood cells.

(5) A grant of £5,620 and a supplementary grant of £334 for research in the Sub-Department of History of Medicine in the Department of Anatomy and Embryology on the evolution of quantitation in nutrition.

(6) A supplementary grant of £1,500 for the Sub-Department of History of Medicine in the Department of Anatomy and Embryology.

Whitehall Foundation Inc.

A grant of $54,600 for a study in the Department of Chemistry of substances promoting growth and differentiation in animal cells.

Geoffrey Woods Limited

A grant of £4,687 for a research fellowship in the Department of Civil and Municipal Engineering for an evaluation of mechanical properties of polymeric materials.

BENEFACTIONS AND DONATIONS TO THE LIBRARY

The Arts Council

A grant of £350 to the Friends of University College, to help the Library's collection of Little Magazines.

Miss Susan Minet

The Minet family archives, presented to the Huguenot Society, whose library is housed in the College.

Mr Romilly R. Morris

A gift of a collection of some 700 monographs on art and sets of *Apollo*, *Burlington Magazine*, and *Studio*, which had belonged to his father, Albert Ronald Morris, a former student of the Slade School.

Mr G. E. Walker

A gift of a collection of some 1,000 volumes of general literature, history, and topography.

APPENDIX XIV

COLLEGE ACCOUNTS 1967–68

The Balance Sheet and the Income and Expenditure Account for the year will be found on pages 124–127.

BALANCE SHEET

LIABILITIES

The Capital Account increased by £496,237, which is attributable to receipts from donors and capital grants towards the acquisition of property, together with the valuation, upon occupation, of Goldsmid House and the Anatomy Dissecting Room.

ASSETS

Freehold and Leasehold Land and Buildings increased by £425,335, which is represented by Goldsmid House and the Anatomy Dissecting Room and a number of small purchases.

TRUST FUNDS

The College holds endowments in the form of 196 separate trust funds with a total value of £1,302,029. The funds yield a total annual income of £87,000.

INCOME AND EXPENDITURE

The income for the year exceeded the expenditure by £118,884, as compared with an excess of expenditure over income of £4,048 in the previous year. The need to budget for a surplus in this, the first year of the Quinquennium 1967–72, is referred to in the opening paragraphs of the Report.

Income exceeded that for 1966–67 by £656,388, of which £531,565 represented increased grants from the Court of the University. Fees increased by £71,498, due to the rise in the number of students and to higher fees for overseas students.

Expenditure was £533,456 more than that in 1966–67. Of this sum £347,152 was spent on academic departments: this included a small number of new posts and revision of technical staff's salaries, and also reflected expenditure of £98,500 from the new equipment grants which have replaced the previous capital grants. Maintenance of Premises required an extra £143,975 following the occupation of more accommodation.

Income and expenditure under the main classifications in 1967–68, as compared with 1966–67 and with the corresponding year of the previous quinquennium, are shown in the following table.

EXPENDITURE	1962–63 £	1962–63 %	1966–67 £	1966–67 %	1967–68 £	1967–68 %
Salaries and Pensions of Teaching Staff..	1,081,135	37·2	1,963,036	38·2	2,044,597	36·0
Departmental Expenses, including Library	689,799	23·7	1,157,029	22·5	1,399,453	24·7
Research Grants ..	480,703	16·5	823,119	16·0	838,376	14·8
Maintenance of Premises	395,355	13·6	653,358	12·7	800,904	14·1
Administration ..	179,352	6·2	294,648	5·8	327,544	5·8
Selective Employment Tax	—	—	108,940	2·1	117,021	2·1
Other	82,496	2·8	136,723	2·7	142,414	2·5
	£2,908,840	100·0	£5,136,853	100·0	£5,670,309	100·0
INCOME						
Endowments ..	51,523	1·8	71,086	1·4	79,776	1·4
Grants	2,108,930	72·5	3,647,827	71·1	4,179,392	72·2
Donations	20,719	·7	78,522	1·5	80,321	1·4
Fees	221,671	7·6	280,772	5·5	352,270	6·1
Grants for Research	480,703	16·5	823,119	16·0	838,376	14·5
Research Training Support Grants ..	—	—	39,690	·8	42,880	·7
Selective Employment Tax	—	—	108,940	2·1	117,021	2·0
Other	25,979	·9	82,849	1·6	99,157	1·7
	£2,909,525	100·0	£5,132,805	100·0	£5,789,193	100·0

EXTRA-BUDGETARY ACTIVITIES

The College administers the finances of many research projects supported from outside sources. 375 were being pursued actively at 31 July 1968. Receipts of research grants were £959,043 compared with £782,509 in 1966–67, and payments rose from £823,119 in 1966–67 to £838,376 in 1967–68.

CAPITAL GRANTS

Capital grants made during the year 1967–68 were as follows:	£
Conversion of Anatomy Museum:	
Professional fees	6,803
Scientific equipment	52,550

	£
Additional accommodation for increased medical student intake:	
Furniture and equipment	23,942
Scientific equipment	69,165
Provision of additional accommodation for increased medical student intake from 1964–65: Furniture and equipment	4,170
Conversion of Anatomy Museum: Furniture and equipment ..	11,482
Superstructure for Anatomy Dissecting Room: Professional Fees ..	9,278
Adaptations consequent on conversion of Anatomy Dissecting Room:	
Professional fees	2,977
Furniture and equipment	12,473
Alterations for Anatomy and Biological Sciences following move of D. M. S. Watson Library: Building work	25,742
Biological Sciences Block:	
Stage IV: Building work	2,557
Stage V: Building work	2,091
Extension to Biological Sciences Building: Furniture and equipment	14,508
New Chemistry Building, Stage I:	
Professional fees	52,367
Furniture and equipment	190,828
Scientific equipment	30,280
Alterations in Department of Chemistry: Furniture and equipment	1,576
Provision in Chemistry for manufacture of chemicals:	
Building work	3,806
Furniture and equipment	219
Central Collegiate Building, Stage I:	
Professional fees	23,035
Furniture and equipment (Refectory Extension)	43,863
New Building at 2–10 Euston Buildings for Eugenics, Biometry and Genetics:	
Professional fees	53,025
Furniture and equipment	81,331
Human Genetics and Biometry: Scientific equipment	23,248
Psychology and Phonetics: Scientific equipment	63,400
Soundproof Cubicles: Building work	21,704
Engineering Building, Stage III:	
Building work	6,950
Furniture and equipment	7,639
Engineering Building, Stage IV:	
Professional fees	16,395
Furniture and equipment	18,850
Civil Engineering and Geology: Scientific equipment	27,404
Extra Staff accommodation for Electrical Engineering:	
Building work	1,189
Purchase of Lease of 1 Colosseum Terrace	8,500
Purchase of Lease of 11 Albany Street	2,250
Purchase of Lease of 28 Lyndhurst Road: Professional and Legal Charges	460
Purchase of Lease of 48 Stanhope Road: Professional and Legal Charges	268
Adaptations of 48 Stanhope Road: Furniture and equipment ..	4,191

	£
Adaptations of 1 Colosseum Terrace and 11 Albany Street:	
Furniture and equipment	5,011
Conversion of Chaucer House and former National Central Library:	
Professional fees	12,398
Furniture and equipment	77,227
Alterations to Foster Court and Flaxman House: Furniture and equipment for Geology and Town Planning	21,929
Alterations to Department of Mathematics: Furniture and equipment	497
Enlargement of lecture room for Mathematics: Building work ..	1,770
Adaptations in Bartlett School of Architecture: Professional Fees ..	479
Conversion of former Genetics accommodation for Architecture and Statistics Departments:	
Professional fees	750
Building work	6,375
Furniture and equipment	7,461
Extension to Aquarium in Zoology Department: Furniture and equipment	864
Conversion of Physiology Department for electronics laboratory and dark rooms:	
Building work	2,800
Furniture and equipment	1,206
Adaptations in Holmbury House for Physics: Professional fees ..	6,713
Ifor Evans Hall of Residence:	
Professional fees	52,133
Furniture and equipment	59,365
Whitcher Place Hall of Residence, Stage II: Professional fees ..	19,445
19 Dukes Road Conversion: Building work	26,348
Adaptations for Teaching and Research:	
Scientific equipment	36,675
Furniture and equipment	14,916
Goldsmid House, North Row, W1:	
Professional fees	30,709
Furniture and equipment	27,775
New Transformer Chamber: Building work	27,836
Conversion of 4–8 Endsleigh Gardens Basement for lecture and seminar rooms: Building work	6,373
Additional accommodation at 22 Gordon Square for Bursar's Department: Furniture and equipment	614
	£1,368,185

SCHOLARSHIPS AND PRIZES

Expenditure amounted to £38,079. Awards were made as under:

	Undergraduate £	*Postgraduate* £
From Endowments	2,583	9,229
„ Donations	67	19,866
„ General Income	4,573	1,761
	£7,223	£30,856

31–7–67 £		£
11,143,789	Capital Account	11,640,026
20,846	Redemption Funds..	22,334
124,287	Loans	104,862
11,288,922		11,767,222
638,246	Reserves and Sundry Funds	773,938
382,746	Unexpended Balances	384,670
659,322	Current Liabilities	457,309
12,969,236		13,383,139
1,274,631	Trust Funds	1,302,029
£14,243,867		£14,685,168

NOTE

The College freehold properties were revalued during 1959 on the basis of current land values and estimated building costs, by the College authorities with professional assistance from Quantity Surveyors. Accordingly these properties are stated at the 1959 valuation with subsequent additions at estimated cost.

No value is included in capital account for furniture and equipment.

31-7-67 £		£
11,286,121	FREEHOLD LAND AND BUILDINGS—see note below	11,386,951
129,547	LEASEHOLD LAND AND BUILDINGS	454,052
11,415,668		11,841,003
394,927	CAPITAL AND OTHER WORKS IN PROGRESS *less* capital grants and other capital receipts	204,045
341,727	INVESTMENTS .. .. (*Market Value of Stock Exchange Securities and other Investments at 31 July 1968, £409,901; 31 July 1967, £350,878*)	391,123
461,812	EXPENDITURE RECOVERABLE FROM FUTURE GRANTS	406,131
355,102	CURRENT ASSETS including prepayments	540,837
12,969,236		13,383,139
1,274,631	TRUST FUNDS	1,302,029
£14,243,867		£14,685,168

1966–67	EXPENDITURE		£	£
£	ADMINISTRATION			
218,149	Salaries		240,979	
63,973	Advertising, Printing, Stationery, Postage and Telephone		70,501	
12,526	Other Expenses (including Professional Fees)		16,064	
(294,648)				327,544
	ACADEMIC DEPARTMENTS			
1,934,430	Salaries of Teaching Staff		2,019,630	
513,152	Departmental Wages: Technical Staff		572,065	
118,547	Secretarial Staff		127,279	
346,006	Departmental and Laboratory Maintenance		420,806	
84,605	Libraries: Salaries	90,726		
58,663	General Expenditure	61,714		
			152,440	
823,119	Research Expenditure covered by grants on Research Contracts		838,376	
21,820	Other Expenditure		18,398	
—	Scientific Equipment (excluding £126,500 carried forward in anticipation of grant)		98,500	
(3,900,342)				4,247,494
	MAINTENANCE OF PREMISES			
136,985	Rates		180,266	
6,176	Insurance		9,535	
	Rent and other payments for use of buildings:			
10,831	Halls of Residence	11,372		
61,715	Other Buildings	65,328		
			76,700	
116,224	Heat, Light, Water and Power		140,544	
242,989	Repairs and Maintenance of Buildings including amounts set aside for long-term maintenance		299,414	
68,042	Wages of Porters and Attendants		74,398	
9,709	Other Expenses		15,789	
(652,671)				796,646
	GENERAL EDUCATIONAL			
2,074	Examinations		227	
37,528	Scholarships and Prizes		38,079	
1,362	Public Lectures		1,170	
4,500	Staff Attendance at Conferences		5,500	
—	Other Items		—	
(45,464)				44,976
	STUDENT FACILITIES AND AMENITIES			
41,000	Grant to Students Union		44,890	
4,993	Salaries: Wardens of Halls of Residence		5,241	
6,844	Student Health Service		6,565	
5,609	Students' Purposes Fund		5,824	
218	Crabb Robinson Fund		200	
299	Ealing Hall Fund		336	
4,672	Central Admissions Scheme		5,300	
49	Miscellaneous		—	
4,840	Careers Office		4,796	
(68,524)				73,152
	MISCELLANEOUS			
28,606	Staff Pensions		24,967	
1,482	Grants from Benevolent Fund		2,142	
178	Grants from Bawden Fund		—	
2,202	Interest on Overdrafts, etc.		4,456	
10,947	Sundries		9,054	
	Deficits on Income and Expenditure Account for Halls of Residence, Refectories, etc.			
1,500	Refectory: College Subvention	2,500		
4,425	Deficit as at 1 August 1967 written off	2,134		
			4,634	
108,940	Selective Employment Tax		117,021	
(158,280)				162,274
	CAPITAL EXPENDITURE MET FROM INCOME			
—	Holmbury House		2,000	
2,000	R.T.B. House		2,000	
(2,000)				4,000
	ALLOCATION TO (FROM) RESERVES AT 31 JULY 1968			
	Revenue Grants:			
62,641	Departmental Maintenance		53,910	
−2,966	Library		−940	
13,790	Repairs and Maintenance of Buildings		17,700	
15,692	Petty Works		16,040	
(89,157)				86,710
—	Former Research Councils (unexpended balance)			16,670
5,211,086				£5,759,466
—	EXCESS OF INCOME OVER EXPENDITURE FOR THE YEAR			118,884
£5,211,086				£5,878,350
4,048	*Excess of Expenditure over Income for the year*			—
920	Balance, 31 July 1968, carried to Balance Sheet			119,804
£4,968				£119,804

INCOME

1966–67 £		£	£
	Endowments		
	Income of Trust Funds appropriated for purposes specified by		
71,086	Trust against expenditure included opposite		79,776
	Donations and Subscriptions: Appropriated for:		
14,451	Special Purposes	15,245	
21,162	Scholarships and Bursaries	19,983	
40,380	Salaries and Superannuation	40,619	
2,529	Departmental and Laboratory Maintenance	4,474	
(78,522)			80,321
	Grants from University Court		
(3,315,000)	General		3,771,000
	Earmarked:		
98,194	Academic salary increases 1966 Scheme	—	
63,550	Former Research Councils	102,105	
26,545	Medical Education	—	
136,973	Rates	180,266	
7,565	Hayter Committee	425	
—	Supplementary Maintenance Grant	25,000	
—	Parry	1,646	
—	Latin American Studies	450	
(332,827)			309,892
—	Scientific Equipment		98,500
39,690	**Research Council Training Support Grants**		42,880
	Fees		
279,419	General	352,484	
708	Examination and Registration	−214	
645	Exhibition Bursaries and Special Remissions	—	
(280,772)			352,270
823,119	**Grants for Research, including research contracts**		838,376
18,426	**Contributions for Services Rendered**		33,649
	Surplus from Income and Expenditure Accounts for College Properties, Halls of Residence, Refectories, etc.		
16,980	College Properties		17,047
30,580	**Other Items**		48,461
108,940	**Selective Employment Tax**		117,021
	Allocations from Reserve at 1 August 1967		
	Release through Reserves:		
7,863	Former Research Councils Grant	—	
5,000	Lectureships met from Donations	—	
4,000	Dilapidations	—	
	Revenue Grants:		
50,360	Departmental Maintenance	62,641	
−4,921	Library General Expenditure	−2,966	
13,804	Repairs and Maintenance of Buildings	13,790	
14,990	Petty Works	15,692	
(91,096)			89,157
5,207,038			£5,878,350

4,048	*Excess of Expenditure over Income for the year*	—
£5,211,086		£5.878,350
4,968	Balance as at 1 August 1967	920
—	Excess of Income over Expenditure for the year after allocations (net) from Reserves of £2,447 (£1,939 (net) from Reserves in 1966–67)	118,884
£4 968		£119,804

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